DISIS-2016-002-1

Definitive Interconnection System Impact Study Report

Group 6 Restudy

Published on April 26, 2019

By Generator Interconnections Dept.

REVISION HISTORY

DATE OR VERSION NUMBER	AUTHOR	CHANGE DESCRIPTION
4/26/2019	SPP	Initial restudy of Group 6 due to current queued withdrawals.

CONTENTS

SECTION 1: INTRODUCTION

Pursuant to the Southwest Power Pool (SPP) Open Access Transmission Tariff (OATT), SPP has conducted this Definitive Interconnection System Impact Study (DISIS) for generation interconnection requests received during the DISIS Queue Cluster Window which closed on November 30, 2016. The customers will be referred to in this study as the DISIS Interconnection Customers. This DISIS analyzes the impact of interconnecting new generation totaling 1,020.3 MW to the SPP Transmission System for Group 6. The interconnecting SPP Transmission Owners include:

- Southwestern Public Service (SPS)

The generation interconnection requests included in this System Impact Study are listed in Appendix A by queue number, amount, requested interconnection service type, area, requested interconnection point, proposed interconnection point, and the requested in-service date[1].

The primary objective of this DISIS is to identify the system constraints, transient instabilities, and over-dutied equipment associated with connecting the generation to the area transmission system. The Impact Study and other subsequent Interconnection Studies are designed to identify required Transmission Owner Interconnection Facilities, Network Upgrades and other Direct Assignment Facilities needed to inject power into the grid at each specific point of interconnection.

[1] The generation interconnection requests in-service dates may need to be deferred based on the required lead time for the Network Upgrades necessary. The Interconnection Customers that proceed to the Facility Study will be provided a new in-service date based on the completion of the Facility Study or as otherwise provided for in the GIP.

SECTION 2: MODEL DEVELOPMENT (STUDY ASSUMPTIONS)

SUBSECTION A: INTERCONNECTION REQUESTS INCLUDED IN THE CLUSTER

This DISIS includes all interconnection requests that were submitted during the DISIS Queue Cluster Window that met all of the requirements of the Generator Interconnection Procedures (GIP) that were in effect at the time this study commenced. Appendix A lists the interconnection requests that are included in this study.

SUBSECTION B: AFFECTED SYSTEM INTERCONNECTION REQUEST

Affected System Interconnection Requests included in this study are listed in Appendix A with the "ASGI" prefix. Affected System Interconnection Requests were only studied in "cluster" scenarios.

SUBSECTION C: PREVIOUSLY QUEUED INTERCONNECTION REQUESTS

The previous-queued requests included in this study are listed in Appendix B. In addition to the Base Case Upgrades, the previous-queued requests and associated upgrades were assumed to be in-service and added to the Base Case models. These requests were dispatched as Energy Resource Interconnection Service (ERIS) resources with equal distribution across the SPP footprint. Prior-queued requests that requested Network Resource Interconnection Service (NRIS) were also dispatched in separate NRIS scenarios sinking into the area of the interconnecting transmission owner.

SUBSECTION D: DEVELOPMENT OF BASE CASES

POWER FLOW

The power flow models used for this study are based on the 2016-series Integrated Transmission Planning models used for the 2017 ITP-Near Term analysis. These models include:

- Year 1 2017 winter peak (17WP)
- Year 2 2018 spring (18G)
- Year 2 2018 summer peak (18SP)
- Year 5 2021 light (21L)
- Year 5 2021 summer (21SP)
- Year 5 2021 winter peak (21WP)
- Year 10 2026 summer peak (26SP)

DYNAMIC STABILITY

The dynamic stability models used for this study are based on the 2016-series SPP Model Development Working Group (MDWG) Models. These models include:

- Year 1 2017 winter peak (17WP)
- Year 2 2018 summer peak (18SP)
- Year 10 2026 summer peak (26SP)

SHORT CIRCUIT

The Year 2 and Year 10 dynamic stability summer peak models were used for short-circuit analysis.

BASE CASE UPGRADES

The facilities listed in the table below are part of the current SPP Transmission Expansion Plan, the Balanced Portfolio, or recently approved Priority Projects. These facilities have an approved Notification to Construct (NTC) or are in construction stages and were assumed to be in-service at the time of dispatch and added to the base case models. The DISIS Interconnection Customers have not been assigned advancement costs for the projects listed below.

The DISIS Interconnection Customers' Generation Facilities in-service dates may need to be delayed until the completion of the following upgrades. In some cases, the in-service date is beyond the allowable time a customer can delay. In this case, the Interconnection Customer may move forward with Limited Operation or remain in the DISIS Queue for additional study cycles. If, for some reason, construction on these projects is discontinued, additional restudies will be needed to determine the interconnection needs of the DISIS Interconnection Customers.

NTC	UID	TO	Upgrade	Estimated Date of Upgrade Completion (EOC)
200360	50957	SPS	Intrepid West - Potash Junction 115 kV Ckt 1 Rebuild	4/15/2019
200360	51250	SPS	National Enrichment Plant - Targa 115 kV Ckt 1	4/5/2019
200391	51528	OGE	DeGrasse 345 kV Substation	6/1/2019
200391	51529	OGE	DeGrasse 345/138 kV Transformer	6/1/2019
200391	51530	OGE	DeGrasse - Knob Hill 138 kV New Line	6/1/2019
200391	51569	OGE	DeGrasse 138 kV Substation (OGE)	6/1/2019
200220	50442	NPPD	Cherry Co. (Thedford) - Gentleman 345 kV Ckt 1	1/1/2021
200220	50444	NPPD	Cherry Co. (Thedford) Substation 345 kV	1/1/2021
200220	50445	NPPD	Cherry Co. (Thedford) - Holt Co. 345 kV Ckt 1	1/1/2021
200220	50446	NPPD	Holt Co. Substation 345 kV	1/1/2021
200309	50457	SPS	Hobbs - Yoakum 345 kV Ckt 1	6/1/2020
200395	50447	SPS	TUCO - Yoakum 345 kV Ckt 1	6/1/2020
200395	50451	SPS	Yoakum 345/230 kV Ckt 1 Transformer	6/1/2019
200282	50869	SPS	China Draw - Yeso Hills 115 kV Ckt 1	12/30/2023
200369	51481	SPS	Canyon East Tap - Randall 115 kV Ckt 1 Rebuild	5/15/2020
200396	51531	WFEC	DeGrasse 138 kV Substation (WFEC)	12/31/2019
200395	50920	SPS	Seminole 230/115 kV #1 Transformer	11/14/2019
200262	51039	SPS	Yoakum County Interchange 230/115 kV Ckt 1 Transformer	3/15/2019
200395	50921	SPS	Seminole 230/115 kV #2 Transformer	5/14/2019
200262	51050	SPS	Yoakum County Interchange 230/115 kV Ckt 2 Transformer	5/31/2019
210507	102156	SPS	Eddy County-Kiowa 345 kV circuit 1	6/1/2024

CONTINGENT UPGRADES

The following facilities do not yet have approval. These facilities have been assigned to higher-queued interconnection customers. These facilities have been included in the models for this study and are assumed to be in service. This list may not be all-inclusive. The DISIS Interconnection Customers, at this time, do not have cost responsibility for these facilities but may later be assigned cost if higher-queued customers terminate their Generation Interconnection Agreement or withdraw from the interconnection queue. The DISIS Interconnection Customer Generation Facilities in-service dates may need to be delayed until the completion of the following upgrades.

Assigned Study	Upgrade Name	Estimated Date of Upgrade Completion (EOC)
DISIS-2015-002	Beatrice - Harbine 115 kV Ckt 1	TBD
DISIS-2015-002	Belvidere - Fairbury 115 kV CKT 1	TBD
DISIS-2015-002	Border 345 kV 100 MVAR Capacitive Reactive Power Support	TBD
DISIS-2015-002	Cleo Corner - Cleo Plnt Tap 138 kV CKT 1	TBD
DISIS-2015-002	Cleveland - Silver City 138 kV CKT 1	TBD
DISIS-2015-002	Deaf Smith - Plant X 230 kV Ckt 1 Rebuild	TBD
DISIS-2015-002	Deaf Smith 230 kV 60 MVAR Capacitive Reactive Power Support	TBD
DISIS-2015-002	Dickinson 230/115 kV CKT 2	TBD
DISIS-2015-002	Gavins Point - Yankon Junction 115 kV	TBD
DISIS-2015-002	Grapevine - Wheeler 230 kV Ckt 1 Terminal Equipment (SPS)	TBD
DISIS-2015-002	Newhart - Plant X 230 kV Ckt 1 Rebuild	TBD
DISIS-2015-002	Oklaunion 345 kV 100 MVAR Capacitive Reactive Power Support	TBD
DISIS-2015-002	Sweetwater - Wheeler 230 kV Ckt 1 Rebuild (AEPW)	TBD
DISIS-2015-002	Sweetwater - Wheeler 230 kV Ckt 1 Terminal Equipment (SPS)	TBD
DISIS-2016-001	Ranch Road - Sooner 345 kV Ckt 1 Terminal Upgrades	TBD
DISIS-2016-001	Sidney - Keystone 345 kV Ckt 2	TBD
DISIS-2016-001	Beaver County - Clark County 345 kV CKT 1 New Line	TBD
DISIS-2016-001	Keystone - Gentleman 345 kV CKT 2	TBD
DISIS-2016-001	Tolk - Crawfish Draw 345 kV CKT 1 New Line	TBD
DISIS-2016-001	Tolk - Potter County 345 kV CKT 1 New Line	TBD
DISIS-2016-001	Wolf Creek - Emporia 345 kV Ckt 1 New Line	TBD
DISIS-2016-001	Cottonwood Creek - G16-032-Tap 138 kV Ckt 1 Rebuild	TBD
DISIS-2016-001	Andrews 230/115/13 kV Transformer CKT 1	TBD
DISIS-2016-001	Andrews 230/115/13 kV Transformer CKT 2	TBD
DISIS-2016-001	Border - Chisholm 345 kV CKT 1 New Line	TBD
DISIS-2016-001	Crawfish Draw 345 kV Substation	TBD
DISIS-2016-001	Greenburg 115 kV 10 MVAR Capacitive Reactive Power Support	TBD
DISIS-2016-001	Oklaunion 345 kV 20 MVAR Capacitive Reactive Power Support	TBD
DISIS-2016-001	Shamrock 69 kV 10 MVAR Capacitive Reactive Power Support	TBD

POTENTIAL UPGRADES NOT IN THE BASE CASE

Any potential upgrades that do not have a Notification to Construct (NTC) and are not explicitly listed within this report have not been included in the base case. These upgrades include any identified in the SPP Extra-High Voltage (EHV) overlay plan, or any other SPP planning study other than the upgrades listed above in the previous section.

REGIONAL GROUPINGS

The interconnection requests listed in Appendix A are grouped into sixteen (16) active regional groups based on geographical and electrical impacts. These groupings are shown in Appendix C. This restudy is a study of regional grouping(s) 6 (South Texas Panhandle/New Mexico Area) only.

SUBSECTION E: DEVELOPMENT OF ANALYSIS CASES

POWER FLOW

For Variable Energy Resources (VER) (solar/wind) in each power flow case, ERIS, is evaluated for the generating plants within a geographical area of the interconnection request(s) for the VERs dispatched at 100% nameplate of maximum generation. The VERs in the remote areas are dispatched at 20% nameplate of maximum generation in the models. These projects are dispatched across the SPP footprint using load factor ratios.

Peaking units are not dispatched in the spring case, or in the "High VER" summer and winter peak cases. To study peaking units' impacts, the Year 1 winter peak and Year 2 summer peak, Year 5 summer and winter peaks, and Year 10 summer peak models are developed with peaking units dispatched at 100% of the nameplate rating and VERs dispatched at 20% of the nameplate rating. Each interconnection request is also modeled separately at 100% nameplate for certain analyses.

All generators (VER and peaking) that requested NRIS are dispatched in an additional analysis into the interconnecting Transmission Owner's (T.O.) area at 100% nameplate with ERIS only requests at 80% nameplate. This method allows for identification of network constraints that are common between regional groupings to have affecting requests share the mitigating upgrade costs throughout the cluster.

Each interconnection request is included in the power flow analysis models as an equivalent generator(s) dispatched at the applicable percentage of the requested service amount with 0.95 power factor capability. The facility modeling includes explicit representation of equivalent Generator Step-Up (GSU) and main project transformer(s) with impedance data provided in the interconnection request. Equivalent collector system(s) as well as transmission lead line(s) shorter than 20 miles are added to the power flow analysis models with zero impedance branches.

DYNAMIC STABILITY

For each group, all interconnection requests are dispatched at 100% nameplate output while the other groups are dispatched at 20% output for VERs and 100% output for thermal requests.

- Each study group includes system adjustments of dispatching, to maximum output, generation interconnected at the same or adjacent substations to a current study request within that group.
- Study Group 9 includes an additional dispatch scenario (GGSSI) to evaluate the Gerald Gentleman Station registered NERC flowgate #6006.
- Study Group 16 includes system adjustments for the Miles City DC Tie, North Dakota – Canadian border – The phase shifting transformer to Saskatchewan Power (also known as B-10T), and reduction of WAPA (area 652) load and generation:

- 2017 Winter Peak –
  - Miles City DC Tie– 200MW East to West transfer
  - B-10T – 65MW South to North transfer
- 2018 Summer Peak –
  - Miles City DC Tie – 200MW East to West transfer
  - B-10T – 200MW North to South transfer
  - 1,100 MW reduction to load and generation (proxy for summer shoulder)
- 2026 Summer Peak –
  - Miles City DC Tie – 200MW East to West transfer

Each interconnection request is included in the dynamic stability analysis models as an equivalent generator(s) dispatched at the applicable percentage of the aggregate generator nameplate capabilities provided in the interconnection request. The facility modeling includes explicit representation of equivalent Generator Step-up (GSU) transformer(s), equivalent collector system(s), main project transformer(s), and transmission lead line(s) with impedance data provided in the interconnection request.

SHORT CIRCUIT

The Year 2 and Year 10 dynamic stability Summer Peak models were used for this analysis.

SECTION 3: IDENTIFICATION OF NETWORK CONSTRAINTS (SYSTEM PERFORMANCE)

SUBSECTION A: THERMAL OVERLOADS

Network constraints are found by using PSS/E AC Contingency Calculation (ACCC) analysis with PSS/E MUST First Contingency Incremental Transfer Capability (FCITC) analysis on the entire cluster grouping dispatched at the various levels previously described.

For ERIS, thermal overloads are determined for system intact (n-0) greater than 100% of Rate A - normal and for contingency (n-n) greater than 100% of Rate B – emergency conditions.

The overloads are then screened to determine which interconnection requests have at least

- 3% Distribution Factor (DF) for system intact conditions (n-0),
- 20% DF upon outage-based conditions (n-n),
- or 3% DF on contingent elements that resulted in a non-converged solution.

Appropriate transmission reinforcements are identified to mitigate the constraints.

Interconnection Requests that requested NRIS are also studied in a separate NRIS analysis to determine if any constraint measured greater than or equal to a 3% DF. If so, these constraints are also assigned transmission reinforcements to mitigate the impacts.

SUBSECTION B: VOLTAGE

For non-converged power flow solutions that are determined to be caused by lack of voltage support, appropriate transmission support will be identified to mitigate the constraint.

After all thermal overload and voltage support mitigations are determined; a full ACCC analysis is then performed to determine voltage constraints. The following voltage performance guidelines are used in accordance with the Transmission Owner local planning criteria.

SPP voltage criteria is applicable to all SPP facilities 69 kV and greater in the absence of more stringent criteria:

System Intact	Contingency
0.95 – 1.05 per unit	0.90 – 1.05 per unit

Areas and specific buses having more-stringent voltage criteria:

Areas/Facilities	System Intact	Contingency
AEPW – all buses EMDE High Voltage	0.95 – 1.05 per unit	0.92 – 1.05 per unit
WERE Low Voltage	0.95 – 1.05 per unit	0.93 – 1.05 per unit
WERE High Voltage	0.95 – 1.05 per unit	0.95 – 1.05 per unit
TUCO 230 kV Bus #525830	0.925 – 1.05 per unit	0.925 – 1.05 per unit
Wolf Creek 345 kV Bus #532797	0.985 – 1.03 per unit	0.985 – 1.03 per unit
FCS Bus #646251	1.001 – 1.047 per unit	1.001 – 1.047 per unit

First-Tier External Areas facilities 115 kV and greater.

Area	System Intact	Contingency
EES-EAI LAGN EES AMMO CLEC LAFA LEPA XEL MP SMMPA GRE OTP ALTW MEC MDU DPC ALTE	0.95 – 1.05 per unit	0.90 – 1.05 per unit
OTP-H (115kV+)	0.97 – 1.05 per unit	0.92 – 1.10 per unit
SPC	0.95 – 1.05 per unit	0.95 – 1.05 per unit

The constraints identified through the voltage scan are screened for the following for each interconnection request. 1) 3% DF on the contingent element and 2) 2% change in pu voltage. In certain conditions, engineering judgement was used to determine whether or not a generator had impacts to voltage constraints.

SUBSECTION C: DYNAMIC STABILITY

Stability issues are considered for transmission reinforcement under ERIS. Generators that fail to meet low voltage ride-through requirements (FERC Order #661-A) or SPP's stability requirements for damping or dynamic voltage recovery are assigned upgrades such that these requirements can be met.

SUBSECTION D: UPGRADES ASSIGNED

Thermal overloads that require transmission support to mitigate are discussed in Section 8 and listed in Appendix G-T (Cluster Analysis). Voltage constraints that may require transmission support are discussed in Section 8 and listed in Appendix G-V (Cluster Analysis). Constraints that are identified solely through the stability analysis are discussed in Section 9 and the appropriate appendix for the detailed stability study of that Interconnection Request. All of these upgrades are cost assigned in Appendix E and Appendix F.

Other network constraints not requiring transmission reinforcements are shown in Appendix H-T (Cluster Analysis). With a defined source and sink in a Transmission Service Request, this list of network constraints can be refined and expanded to account for all Network Upgrade requirements for firm transmission service.

In no way does the list of constraints in Appendix G-T (Cluster Analysis) identify all potential constraints that guarantee operation for all periods of time. It should be noted that although this study analyzed many of the most probable contingencies, it is not an all-inclusive list and cannot account for every operational situation. Because of this, it is likely that the Customer(s) may be required to reduce their generation output to 0 MW, also known as curtailment, under certain system conditions to allow system operators to maintain the reliability of the transmission network.

SECTION 4: DETERMINATION OF COST ALLOCATED NETWORK UPGRADES

Cost Allocated Network Upgrades of Variable Energy Resources (VER) (solar/wind) generation interconnection requests are determined using the Year 2 spring model. Cost Allocated Network Upgrades of peaking units are determined using the Year 5 summer peak model. A PSS/E and MUST sensitivity analysis is performed to determine the DF with no contingency that each generation interconnection request has on each new upgrade. The impact each generation interconnection request has on each upgrade project is weighted by the size of each request. Finally, the costs due by each request for a particular project are then determined by allocating the portion of each request's impact over the impact of all affecting requests.

For example, assume that there are three Generation Interconnection requests, X, Y, and Z that are responsible for the costs of Upgrade Project '1'. Given that their respective PTDF for the project have been determined, the cost allocation for Generation Interconnection request 'X' for Upgrade Project 1 is found by the following set of steps and formulas:

Determine an impact factor for a given project for all responsible GI requests:

$$Request\ X\ Impact\ Factor\ on\ Upgrade\ Project\ 1 = PTDF(\%)(X) \times MW(X) = X1$$

$$Request\ Y\ Impact\ Factor\ on\ Upgrade\ Project\ 1 = PTDF(\%)(Y) \times MW(Y) = Y1$$

$$Request\ Z\ Impact\ Factor\ on\ Upgrade\ Project\ 1 = PTDF(\%)(Z) \times MW(Z) = Z1$$

Determine each request's Allocation of Cost for that particular project:

$$Request\ X's\ Project\ 1\ Cost\ Allocation\ (\$) = \frac{Network\ Upgrade\ Project\ 1\ Cost\ (\$) \times X1}{X1 + Y1 + Z1}$$

Repeat previous for each responsible GI request for each Project.

The cost allocation of each needed Network Upgrade is determined by the size of each request and its impact on the given project. This allows for the most efficient and reasonable mechanism for sharing the costs of upgrades.

SUBSECTION A: CREDITS/COMPENSATION FOR AMOUNTS ADVANCED FOR NETWORK UPGRADES

Interconnection Customer shall be entitled to either credits or potentially incremental Long Term Congestion Rights (iLTCR), otherwise known as compensation, in accordance with Attachment Z2 of the SPP Tariff for any Network Upgrades, including any tax gross-up or any other tax-related payments associated with the Network Upgrades, and not refunded to the Interconnection Customer.

SECTION 5: REQUIRED INTERCONNECTION FACILITIES

The requirement to interconnect the requested generation into the existing and proposed transmission systems in the affected areas of the SPP transmission footprint consist of the necessary cost allocated shared facilities listed in Appendix F by upgrade. The interconnection requirements for Group 6 totals an estimated **$758.1 million.**

Interconnection Facilities specific to each interconnection request are listed in Appendix E. A preliminary one-line diagram for each request is listed in Appendix D.

For an explanation of how required Network Upgrades and Interconnection Facilities were determined, refer to the section on "Identification of Network Constraints."

SUBSECTION A: FACILITIES ANALYSIS

The interconnecting Transmission Owner for each Interconnection Request has provided its preliminary analysis of required Transmission Owner Interconnection Facilities and the associated Network Upgrades, shown in Appendix D. This analysis was limited only to the expected facilities to be constructed by the Transmission Owner at the Point of Interconnection. These costs are included in the one-line diagrams in Appendix D and also listed in Appendix E and F as combined "Interconnection Costs". If the one-lines and costs in Appendix D have been updated by the Transmission Owner's Interconnection Facilities Study, those costs will be noted in the appendix. These costs will be further refined by the Transmission Owner as part of the Interconnection Facilities Study. Any additional Network Upgrades identified by this DISIS beyond the Point of Interconnection are defined and estimated by either the Transmission Owner or by SPP. These additional Network Upgrade costs will also be refined further by the Transmission Owner within the Interconnection Facilities Study.

SUBSECTION B: ENVIRONMENTAL REVIEW

For Interconnection Requests that result in an interconnection to, or modification to, the transmission facilities of the Western-UGP, a National Environmental Policy Act (NEPA) Environmental Review will be required. The Interconnection Customer will be required to execute an Environmental Review Agreement per Section 8.6.1 of the GIP.

SECTION 6: AFFECTED SYSTEMS COORDINATION

The following procedures are in place to coordinate with Affected Systems.

- Impacts on Associated Electric Cooperative Inc. (AECI) – For any observed violations of thermal overloads on AECI facilities, AECI has been notified by SPP to evaluate the violations for impacts on its transmission system.
- Impacts on Midcontinent Independent System Operator (MISO) – Per SPP's agreement with MISO, MISO will be contacted and provided a list of interconnection requests that proceed to move forward into the Interconnection Facilities Study Queue. MISO will then evaluate the Interconnection Requests for impacts and will be in contact with affected Interconnection Customers. For potential impacts see Appendix H-T – Affected System and Appendix H-V – Affected System.
- Impacts on Minnkota Power Cooperative, Inc (MPC) – MPC will be contacted and provided a list of interconnection requests that proceed to move forward into the Interconnection Facilities Study Queue. MPC will then evaluate the Interconnection Requests for impacts. For potential impacts see Appendix H-T – Affected System and Appendix H-V – Affected System.
- Impacts to other affected systems – For any observed violations of thermal overloads or voltage constraints, SPP will contact the owner of the facility for further information.

SECTION 7: POWER FLOW ANALYSIS

SUBSECTION A: POWER FLOW ANALYSIS METHODOLOGY

The ACCC function of PSS/E is used to simulate single element and special (i.e., breaker-to-breaker, multi-element, etc.) contingencies in portions or all of the modeled control areas of SPP as well as control areas external to SPP.

SUBSECTION B: POWER FLOW ANALYSIS

A power flow analysis is conducted for each Interconnection Customer's facility using modified versions of the year 1 winter peak season, the year 2 spring, year 2 summer peak season, year 5 summer and winter peak seasons, year 5 light load season, and year 10 summer peak seasonal models. The output of the Interconnection Customer's facility is offset in each model by a reduction in output of existing online SPP generation. This method allows the request to be studied as an ERIS request. Requests that are pursuing NRIS have an additional analysis conducted for displacing resources in the interconnecting Transmission Owner's balancing area.

SECTION 8: POWER FLOW RESULTS

SUBSECTION A: CLUSTER SCENARIO

The Cluster Scenario considers the Base Case as well as all Interconnection Requests in the DISIS Study Queue and all generating facilities (and with respect to (3) below, any identified Network Upgrades associated with such higher-queued interconnection) that, on the date the DISIS is commenced:

1. are directly connected to the Transmission System;
2. are interconnection to Affected Systems and may have an impact on the Interconnection Request;
3. have a pending higher-queued Interconnection Request to interconnect to the Transmission System; and
4. have no Interconnection Queue Position but have executed a GIA or requested that an unexecuted GIA be filed with FERC.

Constraints and associated mitigations for each Interconnection Request are summarized below. Details are contained in Appendix G-T and Appendix G-V. Cost allocation for the Cluster Scenario is found in Appendix E.

CLUSTER GROUP 6 (SOUTH TEXAS PANHANDLE/NEW MEXICO AREA)

Requests for this study group as well as prior-queued requests are listed in Appendix C.

The following table outlines the incremental mitigation scenarios for Group 6.

Table 8-1 Group 6 Cluster Upgrade Scenarios

Scenario	Constraint Type	Incremental Mitigation
0	Non-Converged	NTC 200395: TUCO - Yoakum 345 kV CKT 1
0	Non-Converged	NTC 210484: Yoakum 345/230 kV Transformer CKT 1
0	Non-Converged	NTC 200309: Hobbs - Yoakum 345 kV CKT 1
0	Non-Converged	NTC 210507: Eddy County - Kiowa 345 kV CKT 1
0	Non-Converged	New Crawfish Draw – Lawton Eastside 345 kV CKT 1
0	Non-Converged	New Chisholm – Grapevine – Potter County 345 kV CKT 1
0	Non-Converged	New 150 Mvar Capacitive Reactive Equipment at Border 345 kV
0	Non-Converged	New 200 Mvar Capacitive Reactive Equipment at Crossroads 345 kV
0	Non-Converged	New 100 Mvar Capacitive Reactive Equipment at Potter 345 kV
2	Thermal	New Crawfish Draw 345/230 kV Transformer CKT 1
2	Thermal	New Potter County 345/230 kV Transformer CKT 2
2	Thermal	Increased Rating of Elk City 230/138 kV Transformer CKT 1
2	Thermal	Increased Rating of Crossroads – Tolk 345 kV CKT 1
2	Thermal	Increased Rating of Crossroads – Eddy 345 kV CKT 1
3	Voltage	New 70 Mvar Capacitive Reactive Equipment at Oklaunion 345 kV

The following ERIS Non-Convergence constraints were observed for single contingency (N-1), and multi-contingency (P1, P2, etc.) conditions for Group 6. The table below summarizes constraints and associated mitigations.

Table 8-2 Group 6 Cluster ERIS Non-Convergence Constraints

Contingency	Mitigation
''P11:115:533:PRATT_P2:1:539687(P2)''	NTC 200395: TUCO - Yoakum 345 kV CKT 1 NTC 210484: Yoakum 345/230 kV Transformer CKT 1 NTC 200309: Hobbs - Yoakum 345 kV CKT 1 NTC 210507: Eddy County - Kiowa 345 kV CKT 1
''P12:115:SPS:T06.1.SPRMN.PRNGLE''	
''P12:115:SPS:T19.1.TERRY.SULPHUR''	
''P12:115:SPS:T20.1.SEGRVS.SULPHUR''	
''P12:115:SPS:T55.1.DC_N.MUSTG''	
''P12:115:SPS:V32.1.TXSCO.ELB(534)''	
''P12:230:SPS:K45.2.PLANTX.TOLK''	
''P12:230:SPS:K76.1.HITCH.OCLTRE''	
''P12:345:SPS:J01.1.TUCO.OKU(520)''	
''P12:345:SPS:J17.1.TUCO.YOAKUM''	
''P23:345:SUNC:HLC_BRK382''	
''P23:345:SUNC:MG_BRK788''	
''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''	
''P42:345:OKGE:SB_BVTY7315''	
''P42:345:OKGE:SB_BVTY7317''	
''P42:345:OKGE:SB_BVTY7385''	
''P42:345:OKGE:SB_CION7384''	
''P42:345:OKGE:SB_MICO7301''	
''P42:345:OKGE:SB_MICO7311''	
''P42:345:OKGE:SB_MICO7312''	
''P42:345:OKGE:SB_MICO7381''	
''P42:345:OKGE:SB_WWHV7383''	
''P42:345:SPS:HOLCOMB-HC382''	
'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'	
'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'	
'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'	
'BORDER 7345.00 345KV SWITCHED SHUNT'	
'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'	
'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	
'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'	
'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'	
'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'	
'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'	
'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'	
'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'	

Contingency	Mitigation
'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	NTC 200395: TUCO - Yoakum 345 kV CKT 1 NTC 210484: Yoakum 345/230 kV Transformer CKT 1 NTC 200309: Hobbs - Yoakum 345 kV CKT 1 NTC 210507: Eddy County - Kiowa 345 kV CKT 1
'CHISHOLM7 345.00 () 345/230/13.2KV TRANSFORMER CKT 1'	
'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'	
'CIMARRON - MINCO 345KV CKT 1'	
'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'	
'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'	
'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	
'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	
'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	
'DEAF SMITH COUNTY INTERCHANGE 230KV SWITCHED SHUNT'	
'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'	
'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	
'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'	
'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'	
'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'	
'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'	
'GRACEMONT - MINCO 345KV CKT 1'	
'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	
'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	
'HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1'	
'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'	
'HOBBS - YOAKUM_345 345.00 345KV CKT 1'	
'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	
'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'	
'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'	
'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'	
'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	
'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'	
'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'	
'P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''	
'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''	
'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'	
'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'	
'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'	
'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'	
'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'	
'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'	
'SWISHER COUNTY INTERCHANGE 230KV SWITCHED SHUNT'	
'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'	

Contingency	Mitigation
'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'	NTC 200395: TUCO - Yoakum 345 kV CKT 1 NTC 210484: Yoakum 345/230 kV Transformer CKT 1 NTC 200309: Hobbs - Yoakum 345 kV CKT 1 NTC 210507: Eddy County - Kiowa 345 kV CKT 1
'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	
'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	
'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'	

The following ERIS thermal constraints were observed for single contingency (N-1), and multi-contingency (P1, P2, etc.) conditions for Group 6. The table below summarizes constraints and associated mitigations.

Table 8-3 Group 6 Cluster ERIS Thermal Constraints

Monitored Element	Limiting Rate A/B (MVA)	TC %Loading (%MVA)	Contingency	Mitigation
'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	128.3244	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	Increased Rating of Crossroads – Tolk 345 kV CKT 1
'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'	559	121.4035	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'	New Potter County 345/230 kV Transformer CKT 2
'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	644	119.0772	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	New Crawfish Draw 345/230 kV Transformer CKT 1
'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	643	118.1293	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	
'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	1143	105.5371	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'	
'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	102.2025	System Intact	Increased Rating of Elk City 230/138 kV Transformer CKT 1
'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	135.549	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	Increased Rating of Crossroads – Eddy 345kV CKT 1

The following ERIS voltage constraints were observed for single contingency (N-1), and multi-contingency (P1, P2, etc.) conditions for Group 6. The table below summarizes constraints and associated mitigations.

Table 8-4 Group 6 Cluster ERIS Voltage Constraints

Monitored Element	TC Voltage (PU)	VMIN (PU)	VMAX (PU)	Contingency	Mitigation
'OKLAUNION 345KV'	0.898356	0.92	1.05	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'	New 70 Mvar Capacitive Reactive Equipment at Oklaunion 345kV
'OKLAUN HVDC7345.00 345KV'	0.898528	0.92	1.05	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'	
'LAWTON EASTSIDE 345KV'	0.918226	0.92	1.05	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'	

SUBSECTION B: LIMITED OPERATION

Limited Operation results are listed below. While these results are based on the criteria listed in GIP 8.4.3, the Interconnection Customer may request additional scenarios for Limited Operation based on higher queued Interconnection Requests not being placed in service. Please refer to Section 8 Subsection A for power flow constraint mitigation.

Table 8-5: Limited Operation Results

Interconnection Request	MW Requested	LOIS Available (MW)
ASGI-2016-009	3.0	0
GEN-2015-099	70.4	0
GEN-2016-121	110.0	0
GEN-2016-123	298.0	0
GEN-2016-124	150.0	0
GEN-2016-125	74.0	0
GEN-2016-171	60.8	0
GEN-2016-172	231.0	0
GEN-2016-177	17.0	0

SUBSECTION C: CURTAILMENT AND SYSTEM RELIABILITY

In no way does this study guarantee operation for all periods of time. It should be noted that although this study analyzed many of the most probable contingencies, it is not an all-inclusive list and cannot account for every operational situation. Because of this, it is likely that the Customer(s) may be required to reduce their generation output to 0 MW, also known as curtailment, under

certain system conditions to allow system operators to maintain the reliability of the transmission network.

SECTION 9: STABILITY & SHORT CIRCUIT ANALYSIS

A stability and short-circuit analysis was conducted for each Interconnection Request using modified versions of the MDWG Models dynamic cases. The stability analysis assumes that all upgrades identified in the power flow analysis are in-service unless otherwise noted in the individual group stability study.

For each group, the interconnection requests are studied at 100% nameplate output while the other groups are dispatched at 20% output for Variable Energy Resource (VER) requests and 100% output for other requests. The output of the Interconnection Customer's facility is offset in each model by a reduction in output of existing online SPP generation.

A synopsis is included for each group. The detailed stability study for each group can be found in the Appendices.

A preliminary short-circuit analysis was performed for this study and will be refined in the Interconnection Facilities Study with any additional required upgrades and cost assignment identified at that time.

9.1 POWER FACTOR REQUIREMENTS SUMMARY

Power factor requirements will be in accordance with FERC Order No. 827, Final Rule, Issued June 16, 2016.

9.2 CLUSTER STABILITY AND SHORT-CIRCUIT SUMMARY

CLUSTER GROUP 6 (SOUTH TEXAS PANHANDLE/NEW MEXICO AREA)

New requests for this study group as well as prior-queued requests are listed in Appendix C.

The Group 6 cases included the following system adjustments of dispatching, to maximum output, generation interconnected at the same or adjacent substations to a current study request:

- Mustang units
- TUCO units
- Tolk units: GEN-2016-123, GEN-2016-124, & GEN-2016-125
- Hobbs units: GEN-2016-171
- Plant X units: GEN-2016-172

The Group 6 stability analysis for this area was performed by Mitsubishi Electric Power Products (MEPPI). With the new requests modeled and the minimum required reactive equipment to achieve a network solution following dispatch (900 MVAR of shunt capacitors), violations of stability damping criteria and voltage recovery criteria were observed.

Upgrades identified in the power flow analysis were also tested in the stability analysis. To mitigate the voltage instability, violations of voltage recovery criteria, and generation tripping off the following upgrades were implemented in each season:

- NTC 200309 (Hobbs-Yoakum 345 kV circuit 1)
- NTC 200395 (TUCO-Yoakum 345 kV circuit 1)
- NTC 210484 (Yoakum 345/230 kV transformer circuit 1)
- NTC 210507 (Eddy County-Kiowa 345 kV circuit 1)
- DISIS-2016-001 out-of-group upgrade Beaver-Clark County 345 kV circuit 1
- Chisholm-Potter County 345 kV circuit 1
- Crawfish Draw-Lawton Eastside 345 kV circuit 1
- Removal of reactive equipment for dispatch (900 MVAR of shunt capacitors)
- Border: 50 MVAR of switched shunt capacitors at 345 kV bus (150 MVAR total)
- Crawfish Draw: 200 MVAR of switched shunt capacitors at 345 kV and +225/-150 MVAR SVC injection at 345 kV bus
- Crossroads: 200 MVAR of switched shunt capacitors at 345 kV bus
- Oklaunion: 130 MVAR of switched shunt capacitors at 345 kV bus (250 MVAR total in addition to HVDC equipment) and +300/-150 MVAR SVC injection at 345 kV bus
- Potter County: 100 MVAR of switched shunt capacitors at 345 kV bus

It should be noted that for certain system conditions curtailment may be necessary to maintain system stability for potential circuit outages including TPL-001-4 P6 and P7 events.

With all previously-assigned and currently-assigned Network Upgrades placed in service and identified system adjustments applied, no violations were observed, including violations of low-voltage ride-through requirements, for the probable contingencies studied.

SECTION 10: CONCLUSION

The minimum cost of interconnecting all Group 6 generation interconnection requests included in this Definitive Interconnection System Impact Restudy is estimated at **$758.1 million**, not including the exceptions noted in Section 5.

Allocated costs for Network Upgrades and Transmission Owner Interconnection Facilities are listed in Appendix E and F. For Interconnection Requests that result in an interconnection to, or modification of, the transmission facilities of the Western-UGP (WAPA), a National Environmental Policy Act (NEPA) Environmental Review will be required. The Interconnection Customer will be required to execute an Environmental Review Agreement per Section 8.6.1 of the GIP.

These costs do not include the cost of upgrades of other transmission facilities listed in Appendix H which are Network Constraints. These interconnection costs do not include any cost of any Network Upgrades that are identified as required through the short circuit analysis. Potential over-duty circuit breakers capability will be identified by the Transmission Owner in the Interconnection Facilities Study.

The Interconnection Facilities Study will be revised, if needed, following the posting of this DISIS. The Interconnection Facilities Study may include additional study analysis, additional facility upgrades not yet identified by this DISIS, such as circuit breaker replacements and affected system facilities, and further refinement of existing cost estimates.

The required interconnection costs listed in Appendices E, and F, and other upgrades associated with Network Constraints do not include all costs associated with the deliverability of the energy to final customers. These costs are determined by separate studies if the Customer submits a Transmission Service Request (TSR) through SPP's Open Access Same Time Information System (OASIS) as required by Attachment Z1 of the SPP Open Access Transmission Tariff (OATT).

APPENDICES

A: GENERATION INTERCONNECTION REQUESTS CONSIDERED FOR IMPACT STUDY

A: Generation Interconnection Requests Considered for Study

Request	Amount	Service	Area	Requested Point of Interconnection	Proposed Point of Interconnection	Requested In-Service Date
ASGI-2016-009	3	ER	SPS	Wolfforth 115kV	Wolfforth 115kV	12/1/2018
ASGI-2016-010	90	ER	SPS	Powell Corner 115kV	Powell Corner 115kV	
GEN-2015-099	73.3	ER	SPS	Maddox 115kV	Maddox 115kV	12/31/2016
GEN-2016-036	44.6	ER	WAPA	Granite Falls 115kV Sub	Granite Falls 115kV Sub	12/31/2018
GEN-2016-074	200	ER	NPPD	Sweetwater 345kV	Sweetwater 345kV	12/31/2018
GEN-2016-087	98.9	ER	WAPA	Bismarck-Glenham 230kV	Bismarck-Glenham 230kV	10/1/2017
GEN-2016-088	151.2	ER/NR	KCPL	Transource Ketchem 345kV Station	Transource Ketchem 345kV Station	12/31/2018
GEN-2016-091	303.6	ER	AEPW	New tap on PSE&G (AEP) 345kV Gracemont-Lawton	New tap on PSE&G (AEP) 345kV Gracemont-Lawton	12/31/2018
GEN-2016-092	175	ER	WAPA	Tap Leland Olds-Ft Thompson 345kV	Tap Leland Olds-Ft Thompson 345kV	12/1/2018
GEN-2016-094	200	ER/NR	WAPA	Tap Ft Thompson-Oahe 230kV	Tap Ft Thompson-Oahe 230kV	12/1/2018
GEN-2016-095	200	ER/NR	AEPW	Tap Gracemont - Lawton 345kV	Tap Gracemont - Lawton 345kV	10/1/2019
GEN-2016-096	227.7	ER	NPPD	Tap Pauline-Moore 345kV	Tap Pauline-Moore 345kV	12/31/2019
GEN-2016-097	100	ER/NR	AEPW	Tap Southwestern-Fletcher Tap 138kV	Tap Southwestern-Fletcher Tap 138kV	10/1/2019
GEN-2016-100	100	ER	OKGE	Tap Sooner-Spring Creek 345kV	Tap Sooner-Spring Creek 345kV	12/1/2018
GEN-2016-101	195	ER	OKGE	Tap Sooner-Spring Creek 345kV	Tap Sooner-Spring Creek 345kV	12/1/2018
GEN-2016-102	150.9	ER/NR	OKGE	Blue River 138kV Substation	Blue River 138kV Substation	12/31/2018
GEN-2016-106	400	ER	NPPD	Gentleman Substation 345kV	Gentleman Substation 345kV	10/15/2018
GEN-2016-110	152	ER	WAPA	Tap Laramie River-Stegall 345kV Line	Tap Laramie River-Stegall 345kV Line	12/31/2019
GEN-2016-111	302	ER	WERE	Tap Summit – Reno 345kV Line	Tap Summit – Reno 345kV Line	12/31/2018
GEN-2016-112	220	ER	WERE	Tap Reno-Summit 345kV (proposed Cross-County Wind 1 345kV Substation GEN-2016-122)	Tap Reno-Summit 345kV (proposed Cross-County Wind 1 345kV Substation GEN-2016-122)	12/1/2018
GEN-2016-114	310	ER/NR	WERE	Tap Reno-Summit 345kV	Tap Reno-Summit 345kV	12/31/2018
GEN-2016-115	300	ER	KCPL	Holt County Switching Station 345kV	Holt County Switching Station 345kV	12/1/2019
GEN-2016-118	288	ER	WFEC	Dover Switchyard 138kV	Dover Switchyard 138kV	12/1/2019
GEN-2016-119	600	ER	OKGE	Tap Spring Creek-Sooner 345 kV	Tap Spring Creek-Sooner 345 kV	12/1/2019
GEN-2016-121	110	ER	SPS	Roadrunner 115kV Sub (528028 "RDRUNNER")	Roadrunner 115kV Sub (528028 "RDRUNNER")	12/31/2018
GEN-2016-122	225	ER	WERE	Tap Reno-Summit 345kV	Tap Reno-Summit 345kV	12/1/2018
GEN-2016-123	298	ER	SPS	Crossroads 345kV	Crossroads 345kV	12/31/2019
GEN-2016-124	150	ER	SPS	Crossroads 345kV	Crossroads 345kV	12/31/2019
GEN-2016-125	74	ER	SPS	Crossroads 345kV	Crossroads 345kV	12/31/2019
GEN-2016-126	172.5	ER/NR	OKGE	Arbuckle 138kV Substation	Arbuckle 138kV Substation	12/31/2019
GEN-2016-128	176	ER	OKGE	Woodring 345kV Substation	Woodring 345kV Substation	12/31/2019
GEN-2016-129	132	ER	AEPW	Valliant 345kV substation	Valliant 345kV substation	12/31/2019
GEN-2016-130	202	ER	WAPA	Leland Olds 345kV	Leland Olds 345kV	12/31/2019
GEN-2016-131	2.5	ER	OKGE	Minco Substation 345kV	Minco Substation 345kV	12/31/2017
GEN-2016-132	6.1	ER	AEPW	Sweetwater 230kV	Sweetwater 230kV	12/31/2017
GEN-2016-133	187.5	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020
GEN-2016-134	187.5	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020
GEN-2016-135	100	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020
GEN-2016-136	75	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020

Request	Amount	Service	Area	Requested Point of Interconnection	Proposed Point of Interconnection	Requested In-Service Date
GEN-2016-137	187.5	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020
GEN-2016-138	187.5	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020
GEN-2016-139	100	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020
GEN-2016-140	75	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020
GEN-2016-141	350	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020
GEN-2016-142	350	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020
GEN-2016-143	175	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020
GEN-2016-144	175	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020
GEN-2016-145	175	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020
GEN-2016-146	175	ER	AEPW	Tulsa North 345kV Substation	Tulsa North 345kV Substation	6/1/2020
GEN-2016-147	40	ER	NPPD	Sidney 115kV Sub	Sidney 115kV Sub	12/31/2019
GEN-2016-149	302	ER	WERE	Stranger Creek 345kV Sub	Stranger Creek 345kV Sub	12/31/2019
GEN-2016-150	302	ER	WERE	Stranger Creek 345kV Sub	Stranger Creek 345kV Sub	12/31/2019
GEN-2016-151	202	ER	WAPA	Tande 345kV Sub	Tande 345kV Sub	12/31/2019
GEN-2016-153	134	ER	WERE	Viola 345kV Substation	Viola 345kV Substation	12/31/2018
GEN-2016-155	1.3	ER	WAPA	Hilken 230kV switching station	Hilken 230kV switching station	12/31/2017
GEN-2016-157	252	ER	KCPL	West Gardner 345kV Sub	West Gardner 345kV Sub	12/31/2019
GEN-2016-158	252	ER	KCPL	West Gardner 345kV Sub	West Gardner 345kV Sub	12/31/2019
GEN-2016-160	20	ER/NR	MIDW	Post Rock 230kV Substation (530584)	Post Rock 230kV Substation (530584)	12/31/2018
GEN-2016-161	3	ER	SPS	Martin 115kV	Martin 115kV	12/31/2017
GEN-2016-162	252	ER	WERE	Benton 345kV	Benton 345kV	12/31/2019
GEN-2016-163	252	ER	WERE	Benton 345kV	Benton 345kV	12/31/2019
GEN-2016-164	7.9	ER	WAPA	Groton 115kV substation	Groton 115kV substation	12/31/2017
GEN-2016-165	202	ER	WAPA	Grand Prairie 345kV	Grand Prairie 345kV	12/31/2019
GEN-2016-166	35	ER/NR	AEPW	Prairie Grove 69kV Substation	Prairie Grove 69kV Substation	12/1/2019
GEN-2016-167	73.5	ER/NR	AEPW	Tap Lieberman - North Benton 138kV	Tap Lieberman - North Benton 138kV	12/1/2019
GEN-2016-171	64	ER	SPS	Tap Hobbs –Yoakum 230kV Line	Tap Hobbs –Yoakum 230kV Line	12/20/2020
GEN-2016-172	231	ER	SPS	Newhart 115kV	Newhart 115kV	12/31/2018
GEN-2016-174	302	ER	WERE	Stranger Creek 345kV Sub	Stranger Creek 345kV Sub	12/31/2019
GEN-2016-176	302	ER	WERE	Stranger Creek 345kV Sub	Stranger Creek 345kV Sub	12/31/2019
GEN-2016-177	17	ER	SPS	XTO Cornell 115kV	XTO Cornell 115kV	
Total:	**12,180.00**					

*In-Service Date for each request is to be determined after the Interconnection Facility Study is completed.

B: PRIOR-QUEUED INTERCONNECTION REQUESTS

B: Prior Queued Interconnection Requests

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
ASGI-2010-006	150.00	AECI	New substation on the 138 kV Fairfax to Fairfax Tap point (on the Shidler to Osage 138 kV line near the Fairfax Tap)	GIA Executed
ASGI-2010-010	211.00	WFEC	Lovington 115 kV	Commerical Operation
ASGI-2010-020	30.00	SPS	Tap LE-Tatum - LE-Crossroads 69 kV	Commerical Operation
ASGI-2010-021	15.00	SPS	Tap LE-Saunders Tap - LE-Anderson 69 kV	Commerical Operation
ASGI-2011-001	27.30	SPS	Lovington 115 kV	Commerical Operation
ASGI-2011-002	40.00	SPS	Herring 115 kV	Commerical Operation
ASGI-2011-003	10.00	SPS	Hendricks 69 kV	Commerical Operation
ASGI-2011-004	20.00	SPS	Pleasant Hill 69 kV	Commerical Operation
ASGI-2012-002	18.15	SPS	FE-Clovis Interchange 115kV	
ASGI-2012-006	22.50	SUNCMKEC	Tap Hugoton - Rolla 69kV	
ASGI-2013-001	11.50	SPS	PanTex South 115kV	
ASGI-2013-002	18.40	SPS	FE Tucumcari 115kV	
ASGI-2013-003	18.40	SPS	FE Clovis 115kV	
ASGI-2013-004	109.80	SUNCMKEC	Morris 115kV	
ASGI-2013-005	1.65	SPS	FE Clovis 115kV	
ASGI-2014-014	169.20	GRDA	Ferguson 69kV	
ASGI-2015-001	6.13	SUNCMKEC	Ninnescah 115kV	
ASGI-2015-002	2.00	SPS	SP-Yuma 69kV	
ASGI-2015-004	169.09	GRDA	Coffeyville City 69kV	
ASGI-2015-006	9.00	SWPA	Tupelo 138kV	
ASGI-2016-002	0.35	SPS	SP-Yuma 115kV	
ASGI-2016-003	6.00	KCPL	Paola 161kV	
ASGI-2016-004	19.20	SPS	Palo Duro 115kV	
ASGI-2016-005	20.00	WAPA	Tap White Lake - Stickeny 69kV	
ASGI-2016-006	20.00	WAPA	Mitchall	
ASGI-2016-007	20.00	WAPA	Kimball 69kV	
ASGI-2016-011	7.41	SWPA	Allen 138 kV	
ASGI-2016-012	61.73	SWPA	Tupelo 138 kV	
ASGI-2016-013	4.94	WFEC	Ashland 138 kV	
ASGI-2017-006	238.00	AECI	Maryville 161 kV	
GEN-2001-014	94.50	WFEC	Ft Supply 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2001-026	74.25	WFEC	Washita 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2001-033	1,440.00	SPS	San Juan Tap 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2001-036	80.00	SPS	Norton 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2001-037	102.00	OKGE	FPL Moreland Tap 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2001-039A	104.00	SUNCMKEC	Shooting Star Tap 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2001-039M	100.00	SUNCMKEC	Central Plains Tap 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2002-004	400.00	WERE	Latham 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2002-005	123.00	WFEC	Red Hills Tap 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2002-008	720.00	SPS	Hitchland 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2002-008IS	40.50	WAPA	Edgeley 115kV [Pomona 115kV]	Commercial Operation
GEN-2002-009	79.80	SPS	Hansford 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2002-009IS	40.00	WAPA	Ft Thompson 69kV [Hyde 69kV]	Commercial Operation
GEN-2002-022	478.40	SPS	Bushland 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2002-025A	150.00	SUNCMKEC	Spearville 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2003-004	100.00	WFEC	Washita 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2003-005	200.00	WFEC	Anadarko - Paradise (Blue Canyon) 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2003-006A	403.20	SUNCMKEC	Elm Creek 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2003-019	500.00	MIDW	Smoky Hills Tap 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2003-020	318.20	SPS	Martin 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2003-021N	150.00	NPPD	Ainsworth Wind Tap 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2003-022	120.00	AEPW	Weatherford 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2004-014	154.50	SUNCMKEC	Spearville 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2004-020	27.00	AEPW	Weatherford 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2004-023	20.60	WFEC	Washita 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2004-023N	75.00	NPPD	Columbus Co 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2005-003	30.60	WFEC	Washita 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2005-003IS	100.00	WAPA	Nelson 115kV	Commercial Operation
GEN-2005-008	120.00	OKGE	Woodward 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2005-008IS	50.00	WAPA	Hilken 230kV [Ecklund 230kV]	Commercial Operation
GEN-2005-012	496.80	SUNCMKEC	Ironwood 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2005-013	199.80	WERE	Caney River 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-002	201.60	AEPW	Sweetwater 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-002IS	51.00	WAPA	Wessington Springs 230kV	Commercial Operation
GEN-2006-006IS	10.00	XEL	Marshall 115kV	Commercial Operation
GEN-2006-015IS	50.00	WAPA	Hilken 230kV [Ecklund 230kV]	Commercial Operation
GEN-2006-018	3,025.80	SPS	TUCO Interchange 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-020N	42.00	NPPD	Bloomfield 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-020S	20.00	SPS	DWS Frisco 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-021	94.00	SUNCMKEC	Flat Ridge Tap 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-024S	18.90	WFEC	Buffalo Bear Tap 69kV	IA FULLY EXECUTED/COMMERCIAL OPERATION

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2006-026	1,812.00	SPS	Hobbs 230kV & Hobbs 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-035	450.00	AEPW	Sweetwater 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-037N1	73.10	NPPD	Broken Bow 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-038N005	79.90	NPPD	Broken Bow 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-038N019	79.90	NPPD	Petersburg North 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-043	98.90	AEPW	Sweetwater 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-044	1,480.00	SPS	Hitchland 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-044N	40.50	NPPD	North Petersburg 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2006-046	129.60	OKGE	Dewey 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2007-011N08	81.00	NPPD	Bloomfield 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2007-013IS	50.00	WAPA	Wessington Springs 230kV	Commercial Operation
GEN-2007-014IS	100.00	WAPA	Wessington Springs 230kV	Commercial Operation
GEN-2007-015IS	100.00	WAPA	Hilken 230kV [Ecklund 230kV]	Commercial Operation
GEN-2007-017IS	166.00	WAPA	Ft Thompson-Grand Island 345kV	On Schedule
GEN-2007-018IS	234.00	WAPA	Ft Thompson-Grand Island 345kV	On Schedule
GEN-2007-020IS	16.00	WAPA	Nelson 115kV	Commercial Operation
GEN-2007-021	402.00	OKGE	Tatonga 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2007-025	598.40	WERE	Viola 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2007-040	200.10	SUNCMKEC	Buckner 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2007-043	200.00	OKGE	Minco 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2007-044	900.00	OKGE	Tatonga 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2007-046	400.00	SPS	Hitchland 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2007-050	342.00	OKGE	Woodward EHV 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2007-052	405.00	WFEC	Anadarko 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2007-062	847.20	OKGE	Woodward EHV 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-003	101.20	OKGE	Woodward EHV 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-008IS	5.00	WAPA	Nelson 115kV	Commercial Operation
GEN-2008-013	600.00	OKGE	Hunter 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-018	499.50	SPS	Finney 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-022	899.10	SPS	Crossroads 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-023	297.60	AEPW	Hobart Junction 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-037	99.00	WFEC	Slick Hills 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION

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GEN-2008-044	395.60	OKGE	Tatonga 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-047	597.80	OKGE	Beaver County 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-051	322.00	SPS	Potter County 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-079	98.90	SUNCMKEC	Crooked Creek 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-086N02	402.00	NPPD	Meadow Grove 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-092	401.00	MIDW	Post Rock 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-098	100.80	WERE	Waverly 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-119O	60.00	OPPD	S1399 161kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-123N	89.66	NPPD	Tap Pauline - Guide Rock (Rosemont) 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-124	200.10	SUNCMKEC	Ironwood 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2008-129	160.00	KCPL	Pleasant Hill 161kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2009-001IS	200.00	WAPA	Groton-Watertown 345kV	On Schedule
GEN-2009-008	198.69	MIDW	South Hays 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2009-018IS	99.50	WAPA	Groton 115kV	Commercial Operation
GEN-2009-020	48.30	MIDW	Walnut Creek 69kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2009-020AIS	130.50	WAPA	Tripp Junction 115kV	Commercial Operation
GEN-2009-025	59.80	OKGE	Nardins 69kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2009-026IS	110.00	WAPA	Dickenson-Heskett 230kV	On Schedule
GEN-2009-040	72.00	WERE	Marshall 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2010-001	599.40	OKGE	Beaver County 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2010-001IS	99.00	WAPA	Bismarck-Glenham 230kV	On Schedule
GEN-2010-003	100.80	WERE	Waverly 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2010-003IS	34.00	WAPA	Wessington Springs 230kV	Commercial Operation
GEN-2010-005	598.40	WERE	Viola 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2010-006	205.00	SPS	Jones 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2010-009	165.60	SUNCMKEC	Buckner 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2010-011	29.70	OKGE	Tatonga 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2010-014	717.60	SPS	Hitchland 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2010-036	50.60	WERE	6th Street 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2010-040	596.90	OKGE	Cimarron 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2010-041	10.29	OPPD	S1399 161kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2010-051	200.00	NPPD	Tap Hoskins - Twin Church (Dixon County) 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2010-055	4.50	AEPW	Wekiwa 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION

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GEN-2010-057	201.00	MIDW	Rice County 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-008	1,800.00	SUNCMKEC	Clark County 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-010	100.80	OKGE	Minco 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-011	50.00	KCPL	Iatan 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-014	198.00	OKGE	Tap Hitchland - Woodward Dbl Ckt (GEN-2011-014 Tap) 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-016	200.10	SUNCMKEC	Ironwood 345kV	IA FULLY EXECUTED/ON SUSPENSION
GEN-2011-018	73.60	NPPD	Steele City 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-019	175.00	OKGE	Woodward 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2011-020	165.60	OKGE	Woodward 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2011-022	598.00	SPS	Hitchland 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2011-025	78.76	SPS	Tap Floyd County - Crosby County 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-027	120.00	NPPD	Tap Hoskins - Twin Church (Dixon County) 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-037	7.00	WFEC	Blue Canyon 5 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-040	222.00	OKGE	Carter County 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-045	205.00	SPS	Jones 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-046	27.00	SPS	Lopez 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-048	175.00	SPS	Mustang 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-049	250.70	OKGE	Border 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2011-050	108.00	AEPW	Santa Fe Tap 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-054	600.00	OKGE	Cimarron 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-056	3.60	NPPD	Jeffrey 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-056A	3.60	NPPD	John 1 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-056B	4.50	NPPD	John 2 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2011-057	150.00	WERE	Creswell 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2012-001	61.20	SPS	Cirrus Tap 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2012-004	82.80	OKGE	Carter County 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2012-007	1,440.00	SUNCMKEC	Rubart 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2012-012IS	75.00	WAPA	Wolf Point-Circle 115kV	On Suspension
GEN-2012-020	956.00	SPS	TUCO 230kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2012-021	4.80	LES	Terry Bundy Generating Station 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2012-024	178.20	SUNCMKEC	Clark County 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2012-028	74.00	WFEC	Gotebo 69kV	IA FULLY EXECUTED/COMMERCIAL OPERATION

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GEN-2012-032	598.00	OKGE	Open Sky 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2012-033	98.06	OKGE	Tap and Tie South 4th - Bunch Creek & Enid Tap - Fairmont (GEN-2012-033T) 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2012-034	7.00	SPS	Mustang 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2012-035	7.00	SPS	Mustang 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2012-036	7.00	SPS	Mustang 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2012-037	203.00	SPS	TUCO 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2012-041	121.50	OKGE	Ranch Road 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2013-002	50.60	NPPD	Monolith 115kV	IA FULLY EXECUTED/ON SUSPENSION
GEN-2013-007	100.00	OKGE	Tap Prices Falls - Carter 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2013-008	1.20	NPPD	Steele City 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2013-009IS	19.50	WAPA	Redfield NW 115kV	Commercial Operation
GEN-2013-011	30.00	AEPW	Turk 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2013-012	588.00	OKGE	Redbud 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2013-016	203.00	SPS	TUCO 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2013-019	73.60	NPPD	Monolith 115kV	IA FULLY EXECUTED/ON SUSPENSION
GEN-2013-022	25.00	SPS	Norton 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2013-027	148.40	SPS	Tap Tolk - Yoakum 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2013-028	1,119.00	GRDA	Tap N Tulsa - GRDA 1 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2013-029	598.00	OKGE	Renfrow 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2013-030	300.00	OKGE	Beaver County 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2013-032	202.50	NPPD	Antelope 115kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2013-033	84.00	MIDW	Knoll 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-001	200.60	WERE	Tap Wichita - Emporia Energy Center (GEN-2014-001 Tap) 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2014-001IS	103.70	WAPA	Newell-Maurine 115kV	IA Pending
GEN-2014-002	10.50	OKGE	Tatonga 345kV (GEN-2007-021 POI)	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-003	15.80	OKGE	Tatonga 345kV (GEN-2007-044 POI)	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-004	4.00	NPPD	Steele City 115kV (GEN-2011-018 POI)	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-005	5.70	OKGE	Minco 345kV (GEN-2011-010 POI)	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-006IS	1,500.00	WAPA	Williston 115kV	On Schedule
GEN-2014-010IS	150.00	WAPA	Neset 115kV	On Schedule
GEN-2014-013	73.40	NPPD	Meadow Grove (GEN-2008-086N2 Sub) 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-014IS	151.50	WAPA	Belfield-Rhame 230kV	On Schedule
GEN-2014-020	99.10	AEPW	Tuttle 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION

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GEN-2014-021	600.00	KCPL	Tap Nebraska City - Mullin Creek (Holt) 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-025	2.40	MIDW	Walnut Creek 69kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-028	35.00	EMDE	Riverton 161kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-031	35.80	NPPD	Meadow Grove 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-032	20.40	NPPD	Meadow Grove 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-033	70.00	SPS	Chaves County 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-034	70.00	SPS	Chaves County 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-035	30.00	SPS	Chaves County 115kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2014-039	73.40	NPPD	Friend 115kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2014-040	319.70	SPS	Castro 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-056	250.00	OKGE	Minco 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-057	249.90	AEPW	Tap Lawton - Sunnyside (Terry Road) 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2014-064	248.40	OKGE	Otter 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2015-001	200.00	OKGE	Ranch Road 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2015-004	52.90	OKGE	Border 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-005	400.20	KCPL	Tap Nebraska City - Sibley (Ketchem) 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2015-007	160.00	NPPD	Hoskins 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-013	120.00	WFEC	Synder 138kV	IA FULLY EXECUTED/ON SUSPENSION
GEN-2015-014	150.00	SPS	Tap Cochran - Lehman 115kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2015-015	154.56	OKGE	Road Runner 138kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2015-016	200.00	KCPL	Tap Marmaton - Centerville 161kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-020	100.00	SPS	Oasis 115kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-021	20.00	SUNCMKEC	Johnson Corner 115kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-023	601.40	NPPD	Holt County 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-024	217.70	WERE	Tap Thistle - Wichita 345kV Dbl CKT	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2015-025	215.90	WERE	Tap Thistle - Wichita 345kV Dbl CKT	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2015-029	161.00	OKGE	Tatonga 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-034	200.00	OKGE	Ranch Road 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-036	607.20	OKGE	Johnston County 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-041	5.00	SPS	TUCO Interchange 345kV	FACILITY STUDY STAGE
GEN-2015-045	20.00	AEPW	Tap Lawton - Sunnyside (Terry Road) 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-046	300.00	WAPA	Tande 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-047	297.80	OKGE	Sooner 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2015-048	200.00	OKGE	Cleo Corner 138kV	IA FULLY EXECUTED/ON SUSPENSION
GEN-2015-052	300.00	WERE	Tap Open Sky - Rose Hill 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-055	40.00	WFEC	Erick 138kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-056	101.20	SPS	Crossroads 345kV	IA FULLY EXECUTED/ON SCHEDULE

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GEN-2015-057	100.00	OKGE	Minco 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2015-062	4.50	OKGE	Tap and Tie South 4th - Bunch Creek & Enid Tap - Fairmont (GEN-2012-033T) 138kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-063	300.00	OKGE	Tap Woodring - Mathewson 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2015-064	197.80	SUNCMKEC	Mingo 115kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-065	202.40	SUNCMKEC	Mingo 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-066	248.40	OKGE	Tap Cleveland - Sooner 345kV	IA FULLY EXECUTED/ON SUSPENSION
GEN-2015-069	300.00	WERE	Union Ridge 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2015-071	200.00	AEPW	Chisholm 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-073	200.10	WERE	Emporia Energy Center 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-076	316.80	NPPD	Belden 115kV	IA FULLY EXECUTED/ON SUSPENSION
GEN-2015-082	200.00	OKGE	Tap Hitchland - Woodward Dbl Ckt (GEN-2011-014 Tap) 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-087	66.00	NPPD	Tap Fairbury - Hebron 115kV	IA FULLY EXECUTED/ON SUSPENSION
GEN-2015-088	300.00	NPPD	Tap Moore - Pauline 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-089	200.00	WAPA	Utica 230kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-090	220.00	WERE	Tap Thistle - Wichita 345kV Dbl CKT	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2015-092	500.00	AEPW	Tap Lawton - Sunnyside (Terry Road) 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-093	500.00	OKGE	Gracemont 345kV	IA FULLY EXECUTED/ON SUSPENSION
GEN-2015-095	176.00	WFEC	DeGrasse 138kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2015-096	150.00	WAPA	Tap Belfield - Rhame 230kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2016-003	248.40	OKGE	Tap Badger - Woodward 345kV	IA PENDING
GEN-2016-004	202.00	WAPA	Leland Olds 230kV	FACILITY STUDY STAGE
GEN-2016-007	100.00	WAPA	Valley City 115kV	FACILITY STUDY STAGE
GEN-2016-009	58.00	OKGE	Osage 69kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2016-013	10.00	EMDE	La Russell 161kV	FACILITY STUDY STAGE
GEN-2016-014	10.00	EMDE	La Russell 161kV	FACILITY STUDY STAGE
GEN-2016-015	100.00	SPS	Andrews 230kV	FACILITY STUDY STAGE
GEN-2016-016	78.20	MIDW	North Kinsley 115kV	FACILITY STUDY STAGE
GEN-2016-017	250.70	WAPA	Tap Fort Thompson - Leland Olds 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2016-020	150.00	WFEC	Mooreland 138kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2016-021	300.00	NPPD	Hoskins 345kV	FACILITY STUDY STAGE
GEN-2016-022	151.80	OKGE	Ranch Road 345kV	FACILITY STUDY STAGE
GEN-2016-023	301.00	WAPA	Tap Laramie River – Sidney 345kV	FACILITY STUDY STAGE
GEN-2016-028	100.00	AEPW	Clayton 138kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2016-029	300.00	WAPA	Tap Laramie River – Sidney 345kV	FACILITY STUDY STAGE
GEN-2016-030	99.90	OKGE	Brown 138kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2016-031	1.50	OKGE	Ranch Road 345kV	IA FULLY EXECUTED/COMMERCIAL OPERATION
GEN-2016-032	200.00	OKGE	Tap Marshall - Cottonwood Creek 138kV	IA FULLY EXECUTED/ON SUSPENSION
GEN-2016-037	300.00	AEPW	Tap Chisholm - Gracemont 345kV	FACILITY STUDY STAGE
GEN-2016-043	230.00	NPPD	Hoskins 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2016-045	998.20	OKGE	Mathewson 345kV	FACILITY STUDY STAGE
GEN-2016-046	299.00	SUNCMKEC	Tap Clark County - Ironwood 345kV	FACILITY STUDY STAGE
GEN-2016-047	168.00	OKGE	Mustang 69kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2016-050	250.70	NPPD	Tap Axtell - Post Rock 345kV	FACILITY STUDY STAGE
GEN-2016-051	9.80	AEPW	Tap Clinton Junction - Weatherford Southeast 138kV	IA FULLY EXECUTED/ON SCHEDULE

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2016-052	3.30	WAPA	Hilken 230kV	FACILITY STUDY STAGE
GEN-2016-053	3.30	WAPA	Hilken 230kV	FACILITY STUDY STAGE
GEN-2016-054	3.40	WAPA	Wessington Springs 230kV	FACILITY STUDY STAGE
GEN-2016-056	200.00	SPS	Carlisle 230kV	FACILITY STUDY STAGE
GEN-2016-057	998.20	OKGE	Mathewson 345kV	FACILITY STUDY STAGE
GEN-2016-061	250.70	OKGE	Tap Woodring - Sooner 345kV	FACILITY STUDY STAGE
GEN-2016-062	250.70	SPS	Andrews 230kV	FACILITY STUDY STAGE
GEN-2016-063	200.00	OKGE	Tap Sunnyside – Hugo 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2016-067	73.60	SUNCMKEC	Mingo 345kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2016-068	250.00	OKGE	Woodring 345kV	FACILITY STUDY STAGE
GEN-2016-069	31.40	SPS	Chaves County 115kV	FACILITY STUDY STAGE
GEN-2016-070	5.30	SPS	Martin 115kV	IA FULLY EXECUTED/ON SCHEDULE
GEN-2016-071	200.10	OKGE	Middleton Tap 138kV	FACILITY STUDY STAGE
GEN-2016-073	220.00	WERE	Tap Thistle – Wichita 345kV Dbl CKT	FACILITY STUDY STAGE
GEN-2016-075	50.00	WAPA	Grand Prairie 345kV	FACILITY STUDY STAGE
Gray County Wind (Montezuma)	110.00	SUNCMKEC	Gray County Tap 115kV	
Llano Estacado (White Deer)	80.00	SPS	Llano Wind 115kV	
MPC00100	99.00	OTP	Langdon 115 kV	In Service
MPC00200	120.00	OTP	Langdon 115 kV	In Service
MPC00300	40.50	OTP	Langdon 115 kV	In Service
MPC00500	1,894.00	OTP	Maple River 230 kV	In Service
MPC01200	49.60	OTP	Maple River 230 kV	In Service
MPC01300	455.00	OTP	Square Butte 230 kV	In Service
MPC02100	100.00	OTP	Center - Mandan 230 kV	In Service
NPPD Distributed (Broken Bow)	8.30	NPPD	Broken Bow 115kV	
NPPD Distributed (Buffalo County Solar)	10.00	NPPD	Kearney Northeast	
NPPD Distributed (Burt County Wind)	24.00	NPPD	Tekamah & Oakland 115kV	
NPPD Distributed (Burwell)	3.00	NPPD	Ord 115kV	
NPPD Distributed (Columbus Hydro)	135.00	NPPD	Columbus 115kV	
NPPD Distributed (North Platte - Lexington)	162.00	NPPD	Multiple: Jeffrey 115kV, John_1 115kV, John_2 115kV	
NPPD Distributed (Ord)	11.90	NPPD	Ord 115kV	
NPPD Distributed (Stuart)	2.10	NPPD	Ainsworth 115kV	
SPS Distributed (Carson)	10.00	SPS	Martin 115kV	Commerical Operation
SPS Distributed (Dumas 19th St)	40.00	SPS	Dumas 19th Street 115kV	
SPS Distributed (Etter)	40.00	SPS	Etter 115kV	
SPS Distributed (Hopi)	10.00	SPS	Hopi 115kV	
SPS Distributed (Jal)	10.00	SPS	S Jal 115kV	
SPS Distributed (Lea Road)	10.00	SPS	Lea Road 115kV	
SPS Distributed (Monument)	10.00	SPS	Monument 115kV	
SPS Distributed (Moore E)	50.00	SPS	Moore East 115kV	
SPS Distributed (Ocotillo)	10.00	SPS	S_Jal 115kV	
SPS Distributed (Sherman)	40.00	SPS	Sherman 115kV	
Sunray	49.50	SPS	Valero 115kV	Commerical Operation
Total:	**68,748.5**			

C: STUDY GROUPINGS

C. Study Groups

GROUP 1: WOODWARD AREA			
Request	**Capacity**	**Area**	**Proposed Point of Interconnection**
GEN-2001-014	94.5	WFEC	Ft Supply 138kV
GEN-2001-037	102	OKGE	FPL Moreland Tap 138kV
GEN-2005-008	120	OKGE	Woodward 138kV
GEN-2006-024S	18.9	WFEC	Buffalo Bear Tap 69kV
GEN-2006-046	129.6	OKGE	Dewey 138kV
GEN-2007-021	201	OKGE	Tatonga 345kV
GEN-2007-043	200	OKGE	Minco 345kV
GEN-2007-044	300	OKGE	Tatonga 345kV
GEN-2007-050	171	OKGE	Woodward EHV 138kV
GEN-2007-062	423.6	OKGE	Woodward EHV 345kV
GEN-2008-003	101.2	OKGE	Woodward EHV 138kV
GEN-2008-044	197.8	OKGE	Tatonga 345kV
GEN-2010-011	29.7	OKGE	Tatonga 345kV
GEN-2010-040	298.45	OKGE	Cimarron 345kV
GEN-2011-010	100.8	OKGE	Minco 345kV
GEN-2011-019	175	OKGE	Woodward 345kV
GEN-2011-020	165.6	OKGE	Woodward 345kV
GEN-2011-054	300	OKGE	Cimarron 345kV
GEN-2014-002	10.5	OKGE	Tatonga 345kV (GEN-2007-021 POI)
GEN-2014-003	15.8	OKGE	Tatonga 345kV (GEN-2007-044 POI)
GEN-2014-005	5.7	OKGE	Minco 345kV (GEN-2011-010 POI)
GEN-2014-020	99.1	AEPW	Tuttle 138kV
GEN-2014-056	250	OKGE	Minco 345kV
GEN-2015-029	161	OKGE	Tatonga 345kV
GEN-2015-048	200	OKGE	Cleo Corner 138kV
GEN-2015-057	100	OKGE	Minco 345kV
GEN-2015-093	250	OKGE	Gracemont 345kV
GEN-2015-095	176	WFEC	DeGrasse 138kV
GEN-2016-003	248.4	OKGE	Tap Badger - Woodward 345kV
GEN-2016-020	150	WFEC	Mooreland 138kV
GEN-2016-045	499.1	OKGE	Mathewson 345kV
GEN-2016-047	24	OKGE	Mustang 69kV
GEN-2016-057	499.1	OKGE	Mathewson 345kV
PRIOR QUEUED SUBTOTAL	**5,817.85**		
GEN-2016-118	288	WFEC	Dover Switchyard 138kV
GEN-2016-131	2.5	OKGE	Minco Substation 345kV
CURRENT CLUSTER SUBTOTAL	**290.50**		
AREA TOTAL	**6,108.35**		

GROUP 2: HITCHLAND AREA			
Request	**Capacity**	**Area**	**Proposed Point of Interconnection**
ASGI-2011-002	20	SPS	Herring 115 kV
ASGI-2013-001	11.5	SPS	PanTex South 115kV
GEN-2002-008	240	SPS	Hitchland 345kV
GEN-2002-009	79.8	SPS	Hansford 115kV
GEN-2002-022	239.2	SPS	Bushland 230kV
GEN-2003-020	159.1	SPS	Martin 115kV
GEN-2006-020S	20	SPS	DWS Frisco 115kV
GEN-2006-044	370	SPS	Hitchland 345kV
GEN-2007-046	200	SPS	Hitchland 115kV
GEN-2008-047	298.9	OKGE	Beaver County 345kV
GEN-2008-051	322	SPS	Potter County 345kV
GEN-2010-001	299.7	OKGE	Beaver County 345kV
GEN-2010-014	358.8	SPS	Hitchland 345kV
GEN-2011-014	198	OKGE	Tap Hitchland - Woodward Dbl Ckt (GEN-2011-014 Tap) 345kV
GEN-2011-022	299	SPS	Hitchland 345kV
GEN-2013-030	300	OKGE	Beaver County 345kV
GEN-2015-082	200	OKGE	Tap Hitchland - Woodward Dbl Ckt (GEN-2011-014 Tap) 345kV
GEN-2016-070	5.3	SPS	Martin 115kV
Llano Estacado (White Deer)	80	SPS	Llano Wind 115kV
SPS Distributed (Carson)	10	SPS	Martin 115kV
SPS Distributed (Dumas 19th St)	20	SPS	Dumas 19th Street 115kV
SPS Distributed (Etter)	20	SPS	Etter 115kV
SPS Distributed (Moore E)	25	SPS	Moore East 115kV
SPS Distributed (Sherman)	20	SPS	Sherman 115kV
PRIOR QUEUED SUBTOTAL	**3,796.30**		
ASGI-2016-010	90	SPS	Powell Corner 115kV
GEN-2016-161	3	SPS	Martin 115kV
CURRENT CLUSTER SUBTOTAL	**93.00**		
AREA TOTAL	**3,889.30**		

GROUP 3: SPEARVILLE AREA

Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2012-006	22.5	SUNCMKEC	Tap Hugoton - Rolla 69kV
ASGI-2015-001	6.132	SUNCMKEC	Ninnescah 115kV
ASGI-2018-003			Appleton 69 kV
GEN-2001-039A	104	SUNCMKEC	Shooting Star Tap 115kV
GEN-2002-025A	150	SUNCMKEC	Spearville 230kV
GEN-2004-014	154.5	SUNCMKEC	Spearville 230kV
GEN-2005-012	248.4	SUNCMKEC	Ironwood 345kV
GEN-2006-021	94	SUNCMKEC	Flat Ridge Tap 138kV
GEN-2007-040	200.1	SUNCMKEC	Buckner 345kV
GEN-2008-018	249.75	SPS	Finney 345kV
GEN-2008-079	98.9	SUNCMKEC	Crooked Creek 115kV
GEN-2008-124	200.1	SUNCMKEC	Ironwood 345kV
GEN-2010-009	165.6	SUNCMKEC	Buckner 345kV
GEN-2011-008	600	SUNCMKEC	Clark County 345kV
GEN-2011-016	200.1	SUNCMKEC	Ironwood 345kV
GEN-2012-007	120	SUNCMKEC	Rubart 115kV
GEN-2012-024	178.2	SUNCMKEC	Clark County 345kV
GEN-2015-021	20	SUNCMKEC	Johnson Corner 115kV
GEN-2016-016	78.2	MIDW	North Kinsley 115kV
GEN-2016-046	299	SUNCMKEC	Tap Clark County - Ironwood 345kV
Gray County Wind (Montezuma)	110	SUNCMKEC	Gray County Tap 115kV
PRIOR QUEUED SUBTOTAL	**3,299.48**		
AREA TOTAL	**3,299.48**		

GROUP 4: NORTHWEST KANSAS AREA

Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2013-004	36.6	SUNCMKEC	Morris 115kV
GEN-2001-039M	100	SUNCMKEC	Central Plains Tap 115kV
GEN-2003-006A	201.6	SUNCMKEC	Elm Creek 230kV
GEN-2003-019	250	MIDW	Smoky Hills Tap 230kV
GEN-2006-031	75	MIDW	Knoll 115kV
GEN-2008-092	200.5	MIDW	Post Rock 230kV
GEN-2009-008	198.69	MIDW	South Hays 230kV
GEN-2009-020	48.3	MIDW	Walnut Creek 69kV
GEN-2010-057	201	MIDW	Rice County 230kV
GEN-2013-033	28	MIDW	Knoll 115kV
GEN-2014-025	2.4	MIDW	Walnut Creek 69kV
GEN-2015-064	197.8	SUNCMKEC	Mingo 115kV
GEN-2015-065	202.4	SUNCMKEC	Mingo 345kV
GEN-2016-067	73.6	SUNCMKEC	Mingo 345kV
PRIOR QUEUED SUBTOTAL	**1,815.89**		
GEN-2016-111	302	WERE	Tap Summit – Reno 345kV Line
GEN-2016-112	220	WERE	Tap Reno-Summit 345kV (proposed Cross-County Wind 1 345kV Substation GEN-2016-122)
GEN-2016-114	310	WERE	Tap Reno-Summit 345kV
GEN-2016-122	225	WERE	Tap Reno-Summit 345kV
GEN-2016-160	20	MIDW	Post Rock 230kV Substation (530584)
CURRENT CLUSTER SUBTOTAL	**1,077.00**		
AREA TOTAL	**2,892.89**		

GROUP 6: SOUTH TEXAS PANHANDLE/NEW MEXICO AREA			
Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2010-010	42.2	WFEC	Lovington 115 kV
ASGI-2010-020	30	SPS	Tap LE-Tatum - LE-Crossroads 69 kV
ASGI-2010-021	15	SPS	Tap LE-Saunders Tap - LE-Anderson 69 kV
ASGI-2011-001	27.3	SPS	Lovington 115 kV
ASGI-2011-003	10	SPS	Hendricks 69 kV
ASGI-2011-004	20	SPS	Pleasant Hill 69 kV
ASGI-2012-002	18.15	SPS	FE-Clovis Interchange 115kV
ASGI-2013-002	18.4	SPS	FE Tucumcari 115kV
ASGI-2013-003	18.4	SPS	FE Clovis 115kV
ASGI-2013-005	1.65	SPS	FE Clovis 115kV
ASGI-2015-002	2	SPS	SP-Yuma 69kV
ASGI-2016-001	2.5	SPS	Wolfforth 115kV
ASGI-2016-002	0.35	SPS	SP-Yuma 115kV
ASGI-2016-004	9.6	SPS	Palo Duro 115kV
GEN-2001-033	180	SPS	San Juan Tap 230kV
GEN-2001-036	80	SPS	Norton 115kV
GEN-2006-018	168.1	SPS	TUCO Interchange 230kV
GEN-2006-026	604	SPS	Hobbs 230kV & Hobbs 115kV
GEN-2008-022	299.7	SPS	Crossroads 345kV
GEN-2010-006	205	SPS	Jones 230kV
GEN-2011-025	78.76	SPS	Tap Floyd County - Crosby County 115kV
GEN-2011-045	205	SPS	Jones 230kV
GEN-2011-046	27	SPS	Lopez 115kV
GEN-2011-048	175	SPS	Mustang 230kV
GEN-2012-001	61.2	SPS	Cirrus Tap 230kV
GEN-2012-020	478	SPS	TUCO 230kV
GEN-2012-034	7	SPS	Mustang 230kV
GEN-2012-035	7	SPS	Mustang 230kV
GEN-2012-036	7	SPS	Mustang 230kV
GEN-2012-037	203	SPS	TUCO 345kV
GEN-2013-016	203	SPS	TUCO 345kV
GEN-2013-022	25	SPS	Norton 115kV
GEN-2013-027	148.4	SPS	Tap Tolk - Yoakum 230kV
GEN-2014-033	70	SPS	Chaves County 115kV
GEN-2014-034	70	SPS	Chaves County 115kV
GEN-2014-035	30	SPS	Chaves County 115kV
GEN-2014-040	319.7	SPS	Castro 115kV
GEN-2015-014	150	SPS	Tap Cochran - Lehman 115kV
GEN-2015-020	100	SPS	Oasis 115kV
GEN-2015-041	5	SPS	TUCO Interchange 345kV
GEN-2015-056	101.2	SPS	Crossroads 345kV
GEN-2016-015	100	SPS	Andrews 230kV
GEN-2016-056	200	SPS	Carlisle 230kV
GEN-2016-062	250.7	SPS	Andrews 230kV
GEN-2016-069	31.4	SPS	Chaves County 115kV
SPS Distributed (Hopi)	10	SPS	Hopi 115kV
SPS Distributed (Jal)	10	SPS	S Jal 115kV
SPS Distributed (Lea Road)	10	SPS	Lea Road 115kV
SPS Distributed (Monument)	10	SPS	Monument 115kV

SPS Distributed (Ocotillo)	10	SPS	S_Jal 115kV
Sunray	49.5	SPS	Valero 115kV
PRIOR QUEUED SUBTOTAL	**4,905.21**		
ASGI-2016-009	3	SPS	Wolfforth 115kV
GEN-2015-099	73.3	SPS	Maddox 115kV
GEN-2016-121	110	SPS	Roadrunner 115kV Sub (528028 "RDRUNNER")
GEN-2016-123	298	SPS	Crossroads 345kV
GEN-2016-124	150	SPS	Crossroads 345kV
GEN-2016-125	74	SPS	Crossroads 345kV
GEN-2016-171	64	SPS	Tap Hobbs –Yoakum 230kV Line
GEN-2016-172	231	SPS	Newhart 115kV
GEN-2016-177	17	SPS	XTO Cornell 115kV
CURRENT CLUSTER SUBTOTAL	**1,020.30**		
AREA TOTAL	**5,925.51**		

GROUP 7: SOUTHWEST OKLAHOMA AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-026	74.25	WFEC	Washita 138kV
GEN-2002-005	123	WFEC	Red Hills Tap 138kV
GEN-2003-004	100	WFEC	Washita 138kV
GEN-2003-005	100	WFEC	Anadarko - Paradise (Blue Canyon) 138kV
GEN-2003-022	120	AEPW	Weatherford 138kV
GEN-2004-020	27	AEPW	Weatherford 138kV
GEN-2004-023	20.6	WFEC	Washita 138kV
GEN-2005-003	30.6	WFEC	Washita 138kV
GEN-2006-002	100.8	AEPW	Sweetwater 230kV
GEN-2006-035	225	AEPW	Sweetwater 230kV
GEN-2006-043	98.9	AEPW	Sweetwater 230kV
GEN-2007-052	135	WFEC	Anadarko 138kV
GEN-2008-023	148.8	AEPW	Hobart Junction 138kV
GEN-2008-037	99	WFEC	Slick Hills 138kV
GEN-2011-037	7	WFEC	Blue Canyon 5 138kV
GEN-2011-049	250.7	OKGE	Border 345kV
GEN-2012-028	74	WFEC	Gotebo 69kV
GEN-2015-004	52.9	OKGE	Border 345kV
GEN-2015-013	120	WFEC	Synder 138kV
GEN-2015-055	40	WFEC	Erick 138kV
GEN-2015-071	200	AEPW	Chisholm 345kV
GEN-2016-037	300	AEPW	Tap Chisholm - Gracemont 345kV
GEN-2016-051	9.8	AEPW	Tap Clinton Junction - Weatherford Southeast 138kV
PRIOR QUEUED SUBTOTAL	**2,457.35**		
GEN-2016-091	303.6	AEPW	New tap on PSE&G (AEP) 345kV Gracemont-Lawton
GEN-2016-095	200	AEPW	Tap Gracemont - Lawton 345kV
GEN-2016-097	100	AEPW	Tap Southwestern-Fletcher Tap 138kV
GEN-2016-132	6.1	AEPW	Sweetwater 230kV
CURRENT CLUSTER SUBTOTAL	**609.70**		
AREA TOTAL	**3,067.05**		

GROUP 8: NORTH OKLAHOMA/SOUTH CENTRAL KANSAS AREA

Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2010-006	150	AECI	New substation on the 138 kV Fairfax to Fairfax Tap point (on the Shidler to Osage 138 kV line near the Fairfax Tap)
ASGI-2014-014	56.4	GRDA	Ferguson 69kV
ASGI-2015-004	56.364	GRDA	Coffeyville City 69kV
ASGI-2018-006			Metz 69 kV
ASGI-2018-013		AECI	Remington 138 kV
GEN-2002-004	200	WERE	Latham 345kV
GEN-2005-013	199.8	WERE	Caney River 345kV
GEN-2007-025	299.2	WERE	Viola 345kV
GEN-2008-013	300	OKGE	Hunter 345kV
GEN-2008-021	42	WERE	Wolf Creek 345kV
GEN-2008-098	100.8	WERE	Waverly 345kV
GEN-2009-025	59.8	OKGE	Nardins 69kV
GEN-2010-003	100.8	WERE	Waverly 345kV
GEN-2010-005	299.2	WERE	Viola 345kV
GEN-2010-055	4.5	AEPW	Wekiwa 138kV
GEN-2011-057	150	WERE	Creswell 138kV

GEN-2012-032	299	OKGE	Open Sky 345kV
GEN-2012-033	98.06	OKGE	Tap and Tie South 4th - Bunch Creek & Enid Tap - Fairmont (GEN-2012-033T) 138kV
GEN-2012-041	121.5	OKGE	Ranch Road 345kV
GEN-2013-012	147	OKGE	Redbud 345kV
GEN-2013-028	559.5	GRDA	Tap N Tulsa - GRDA 1 345kV
GEN-2013-029	299	OKGE	Renfrow 345kV
GEN-2014-001	200.6	WERE	Tap Wichita - Emporia Energy Center (GEN-2014-001 Tap) 345kV
GEN-2014-028	35	EMDE	Riverton 161kV
GEN-2014-064	248.4	OKGE	Otter 138kV
GEN-2015-001	200	OKGE	Ranch Road 345kV
GEN-2015-015	154.56	OKGE	Road Runner 138kV
GEN-2015-016	200	KCPL	Tap Marmaton - Centerville 161kV
GEN-2015-024	217.7	WERE	Tap Thistle - Wichita 345kV Dbl CKT
GEN-2015-025	215.9	WERE	Tap Thistle - Wichita 345kV Dbl CKT
GEN-2015-034	200	OKGE	Ranch Road 345kV
GEN-2015-047	297.8	OKGE	Sooner 345kV
GEN-2015-052	300	WERE	Tap Open Sky - Rose Hill 345kV
GEN-2015-062	4.5	OKGE	Tap and Tie South 4th - Bunch Creek & Enid Tap - Fairmont (GEN-2012-033T) 138kV
GEN-2015-063	300	OKGE	Tap Woodring - Mathewson 345kV
GEN-2015-066	248.4	OKGE	Tap Cleveland - Sooner 345kV
GEN-2015-069	300	WERE	Union Ridge 230kV
GEN-2015-073	200.1	WERE	Emporia Energy Center 345kV
GEN-2015-090	220	WERE	Tap Thistle - Wichita 345kV Dbl CKT
GEN-2016-009	29	OKGE	Osage 69kV
GEN-2016-022	151.8	OKGE	Ranch Road 345kV
GEN-2016-031	1.5	OKGE	Ranch Road 345kV
GEN-2016-032	200	OKGE	Tap Marshall - Cottonwood Creek 138kV
GEN-2016-061	250.7	OKGE	Tap Woodring - Sooner 345kV
GEN-2016-068	250	OKGE	Woodring 345kV
GEN-2016-071	200.1	OKGE	Middleton Tap 138kV
GEN-2016-073	220	WERE	Tap Thistle – Wichita 345kV Dbl CKT
PRIOR QUEUED SUBTOTAL	**8,388.98**		
GEN-2016-100	100	OKGE	Tap Sooner-Spring Creek 345kV
GEN-2016-101	195	OKGE	Tap Sooner-Spring Creek 345kV
GEN-2016-119	600	OKGE	Tap Spring Creek-Sooner 345 kV
GEN-2016-128	176	OKGE	Woodring 345kV Substation
GEN-2016-133	187.5	AEPW	Tulsa North 345kV Substation
GEN-2016-134	187.5	AEPW	Tulsa North 345kV Substation
GEN-2016-135	100	AEPW	Tulsa North 345kV Substation
GEN-2016-136	75	AEPW	Tulsa North 345kV Substation
GEN-2016-137	187.5	AEPW	Tulsa North 345kV Substation
GEN-2016-138	187.5	AEPW	Tulsa North 345kV Substation
GEN-2016-139	100	AEPW	Tulsa North 345kV Substation
GEN-2016-140	75	AEPW	Tulsa North 345kV Substation
GEN-2016-141	350	AEPW	Tulsa North 345kV Substation
GEN-2016-142	350	AEPW	Tulsa North 345kV Substation
GEN-2016-143	175	AEPW	Tulsa North 345kV Substation
GEN-2016-144	175	AEPW	Tulsa North 345kV Substation
GEN-2016-145	175	AEPW	Tulsa North 345kV Substation
GEN-2016-146	175	AEPW	Tulsa North 345kV Substation
GEN-2016-153	134	WERE	Viola 345kV Substation
GEN-2016-162	252	WERE	Benton 345kV

GEN-2016-163	252	WERE	Benton 345kV
CURRENT CLUSTER SUBTOTAL	**4,209.00**		
AREA TOTAL	**12,597.98**		

GROUP 9: NEBRASKA AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2002-023N	0.8	NPPD	Harmony 115kV
GEN-2003-021N	75	NPPD	Ainsworth Wind Tap 115kV
GEN-2004-023N	75	NPPD	Columbus Co 115kV
GEN-2006-020N	42	NPPD	Bloomfield 115kV
GEN-2006-037N1	73.1	NPPD	Broken Bow 115kV
GEN-2006-038N005	79.9	NPPD	Broken Bow 115kV
GEN-2006-038N019	79.9	NPPD	Petersburg North 115kV
GEN-2006-044N	40.5	NPPD	North Petersburg 115kV
GEN-2007-011N08	81	NPPD	Bloomfield 115kV
GEN-2007-017IS	166	WAPA	Ft Thompson-Grand Island 345kV
GEN-2007-018IS	234	WAPA	Ft Thompson-Grand Island 345kV
GEN-2008-086N02	201	NPPD	Meadow Grove 230kV
GEN-2008-119O	60	OPPD	S1399 161kV
GEN-2008-123N	89.66	NPPD	Tap Pauline - Guide Rock (Rosemont) 115kV
GEN-2009-040	72	WERE	Marshall 115kV
GEN-2010-041	10.29	OPPD	S1399 161kV
GEN-2010-051	200	NPPD	Tap Hoskins - Twin Church (Dixon County) 230kV
GEN-2011-018	73.6	NPPD	Steele City 115kV
GEN-2011-027	120	NPPD	Tap Hoskins - Twin Church (Dixon County) 230kV
GEN-2011-056	3.6	NPPD	Jeffrey 115kV
GEN-2011-056A	3.6	NPPD	John 1 115kV
GEN-2011-056B	4.5	NPPD	John 2 115kV
GEN-2012-021	4.8	LES	Terry Bundy Generating Station 115kV
GEN-2013-002	50.6	NPPD	Monolith 115kV
GEN-2013-008	1.2	NPPD	Steele City 115kV
GEN-2013-019	73.6	NPPD	Monolith 115kV
GEN-2013-032	202.5	NPPD	Antelope 115kV
GEN-2014-004	4	NPPD	Steele City 115kV (GEN-2011-018 POI)
GEN-2014-013	73.4	NPPD	Meadow Grove (GEN-2008-086N2 Sub) 230kV
GEN-2014-031	35.8	NPPD	Meadow Grove 230kV
GEN-2014-032	10.2	NPPD	Meadow Grove 230kV
GEN-2014-039	73.4	NPPD	Friend 115kV
GEN-2015-007	160	NPPD	Hoskins 345kV
GEN-2015-023	300.7	NPPD	Holt County 345kV
GEN-2015-076	158.4	NPPD	Belden 115kV
GEN-2015-087	66	NPPD	Tap Fairbury - Hebron 115kV
GEN-2015-088	300	NPPD	Tap Moore - Pauline 345kV
GEN-2015-089	200	WAPA	Utica 230kV
GEN-2016-021	300	NPPD	Hoskins 345kV
GEN-2016-023	150.5	WAPA	Tap Laramie River – Sidney 345kV
GEN-2016-029	150	WAPA	Tap Laramie River – Sidney 345kV
GEN-2016-043	230	NPPD	Hoskins 345kV
GEN-2016-050	250.7	NPPD	Tap Axtell - Post Rock 345kV
GEN-2016-075	50	WAPA	Grand Prairie 345kV
NPPD Distributed (Broken Bow)	8.3	NPPD	Broken Bow 115kV
NPPD Distributed (Buffalo County Solar)	10	NPPD	Kearney Northeast

NPPD Distributed (Burt County Wind)	12	NPPD	Tekamah & Oakland 115kV
NPPD Distributed (Burwell)	3	NPPD	Ord 115kV
NPPD Distributed (Columbus Hydro)	45	NPPD	Columbus 115kV
NPPD Distributed (North Platte - Lexington)	54	NPPD	Multiple: Jeffrey 115kV, John_1 115kV, John_2 115kV
NPPD Distributed (Ord)	11.9	NPPD	Ord 115kV
NPPD Distributed (Stuart)	2.1	NPPD	Ainsworth 115kV
PRIOR QUEUED SUBTOTAL	**4,777.55**		
GEN-2016-074	200	NPPD	Sweetwater 345kV
GEN-2016-096	227.7	NPPD	Tap Pauline-Moore 345kV
GEN-2016-106	400	NPPD	Gentleman Substation 345kV
GEN-2016-110	152	WAPA	Tap Laramie River-Stegall 345kV Line
GEN-2016-147	40	NPPD	Sidney 115kV Sub
GEN-2016-165	202	WAPA	Grand Prairie 345kV
CURRENT CLUSTER SUBTOTAL	**1,221.70**		
AREA TOTAL	**5,999.25**		

GROUP 10: SOUTHEAST OKLAHOMA/NORTHEAST TEXAS AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2016-167	73.5	AEPW	Tap Lieberman - North Benton 138kV
CURRENT CLUSTER SUBTOTAL	**73.50**		
AREA TOTAL	**73.50**		

GROUP 12: NORTHWEST ARKANSAS AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2013-011	30	AEPW	Turk 138kV
GEN-2016-013	10	EMDE	La Russell 161kV
GEN-2016-014	10	EMDE	La Russell 161kV
PRIOR QUEUED SUBTOTAL	**50.00**		
GEN-2016-166	35	AEPW	Prairie Grove 69kV Substation
CURRENT CLUSTER SUBTOTAL	**35.00**		
AREA TOTAL	**85.00**		

GROUP 13: NORTHWEST MISSOURI AREA

Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2016-003	6	KCPL	Paola 161kV
ASGI-2017-006	238	AECI	Maryville 161 kV
ASGI-2018-001	230	AECI	Maryville 161 kV
ASGI-2018-007			Salisbury 161 kV
ASGI-2018-008			Centerville 161 kV
ASGI-2018-009			Paola 161kV
ASGI-2018-010			Pleasant Valley 161kV
ASGI-2018-011			South Ottawa 161kV
ASGI-2018-012			South Ottawa 161kV
GEN-2008-129	80	KCPL	Pleasant Hill 161kV
GEN-2010-036	4.6	WERE	6th Street 115kV
GEN-2011-011	50	KCPL	Iatan 345kV
GEN-2014-021	300	KCPL	Tap Nebraska City - Mullin Creek (Holt) 345kV
GEN-2015-005	200.1	KCPL	Tap Nebraska City - Sibley (Ketchem) 345kV
PRIOR QUEUED SUBTOTAL	**1,108.70**		
GEN-2016-088	151.2	KCPL	Transource Ketchem 345kV Station
GEN-2016-115	300	KCPL	Holt County Switching Station 345kV
GEN-2016-149	302	WERE	Stranger Creek 345kV Sub
GEN-2016-150	302	WERE	Stranger Creek 345kV Sub
GEN-2016-157	252	KCPL	West Gardner 345kV Sub
GEN-2016-158	252	KCPL	West Gardner 345kV Sub
GEN-2016-174	302	WERE	Stranger Creek 345kV Sub
GEN-2016-176	302	WERE	Stranger Creek 345kV Sub
CURRENT CLUSTER SUBTOTAL	**2,163.20**		
AREA TOTAL	**3,271.90**		

GROUP 14: SOUTH CENTRAL OKLAHOMA AREA

Request	Capacity	Area	Proposed Point of Interconnection

ASGI-2015-006	9	SWPA	Tupelo 138kV
ASGI-2016-011	7.407	SWPA	Allen 138 kV
ASGI-2016-012	61.725	SWPA	Tupelo 138 kV
ASGI-2016-013	4.938	WFEC	Ashland 138 kV
GEN-2011-040	111	OKGE	Carter County 138kV
GEN-2011-050	108	AEPW	Santa Fe Tap 138kV
GEN-2012-004	41.4	OKGE	Carter County 138kV
GEN-2013-007	100	OKGE	Tap Prices Falls - Carter 138kV
GEN-2014-057	249.9	AEPW	Tap Lawton - Sunnyside (Terry Road) 345kV
GEN-2015-036	303.6	OKGE	Johnston County 345kV
GEN-2015-045	20	AEPW	Tap Lawton - Sunnyside (Terry Road) 345kV
GEN-2015-092	250	AEPW	Tap Lawton - Sunnyside (Terry Road) 345kV
GEN-2016-028	100	AEPW	Clayton 138kV
GEN-2016-030	99.9	OKGE	Brown 138kV
GEN-2016-063	200	OKGE	Tap Sunnyside – Hugo 345kV
PRIOR QUEUED SUBTOTAL	**1,666.87**		
GEN-2016-102	150.9	OKGE	Blue River 138kV Substation
GEN-2016-126	172.5	OKGE	Arbuckle 138kV Substation
GEN-2016-129	132	AEPW	Valliant 345kV substation
CURRENT CLUSTER SUBTOTAL	**455.40**		
AREA TOTAL	**2,122.27**		

GROUP 15: E-SOUTH DAKOTA AREA			
Request	**Capacity**	**Area**	**Proposed Point of Interconnection**
ASGI-2016-005	20	WAPA	Tap White Lake - Stickeny 69kV
ASGI-2016-006	20	WAPA	Mitchall
ASGI-2016-007	20	WAPA	Kimball 69kV
GEN-2002-009IS	40	WAPA	Ft Thompson 69kV [Hyde 69kV]
GEN-2007-013IS	50	WAPA	Wessington Springs 230kV
GEN-2007-014IS	100	WAPA	Wessington Springs 230kV
GEN-2009-001IS	200	WAPA	Groton-Watertown 345kV
GEN-2009-018IS	99.5	WAPA	Groton 115kV
GEN-2010-001IS	99	WAPA	Bismarck-Glenham 230kV
GEN-2010-003IS	34	WAPA	Wessington Springs 230kV
GEN-2013-009IS	19.5	WAPA	Redfield NW 115kV
GEN-2014-001IS	103.7	WAPA	Newell-Maurine 115kV
GEN-2016-017	250.7	WAPA	Tap Fort Thompson - Leland Olds 345kV
PRIOR QUEUED SUBTOTAL	**1,056.40**		
GEN-2016-036	44.6	WAPA	Granite Falls 115kV Sub
GEN-2016-087	98.9	WAPA	Bismarck-Glenham 230kV
GEN-2016-092	175	WAPA	Tap Leland Olds-Ft Thompson 345kV
GEN-2016-094	200	WAPA	Tap Ft Thompson-Oahe 230kV
GEN-2016-164	7.9	WAPA	Groton 115kV substation
CURRENT CLUSTER SUBTOTAL	**526.40**		
AREA TOTAL	**1,582.80**		

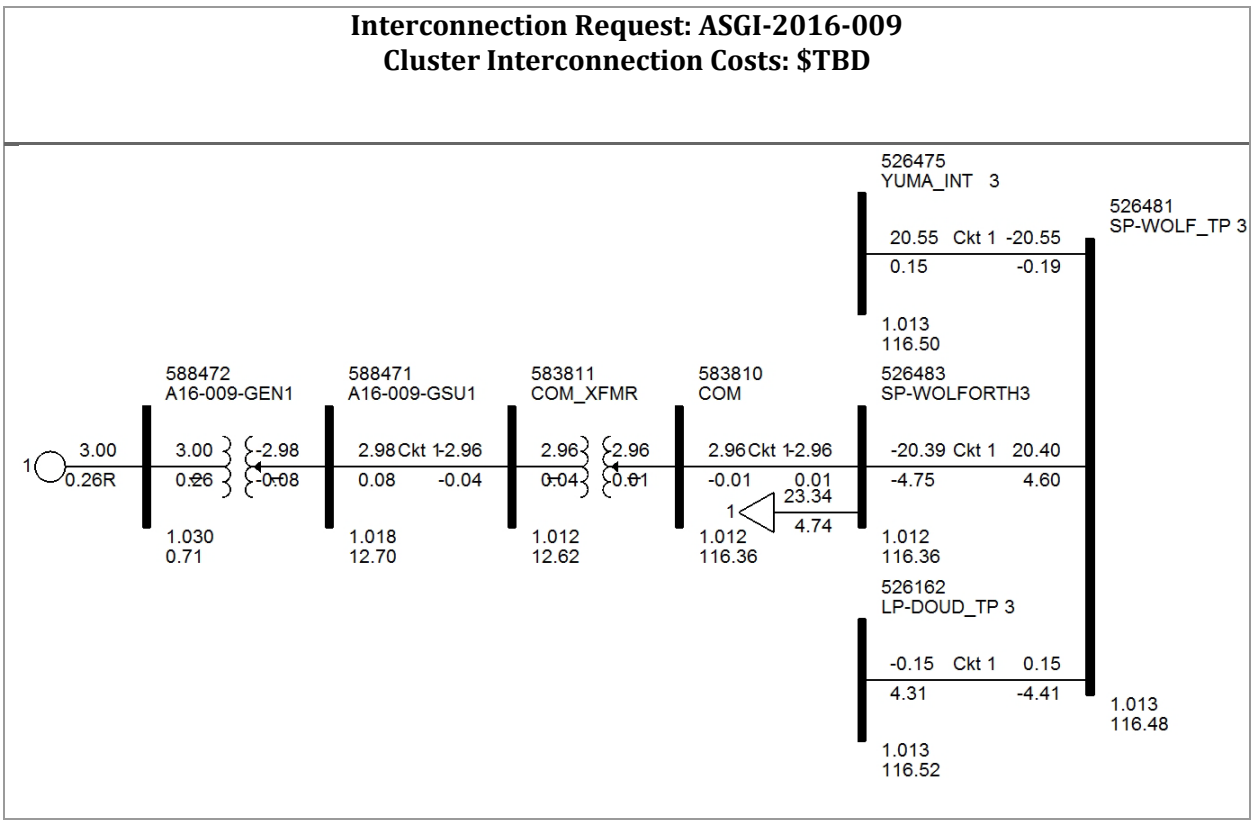
GROUP 16: W-NORTH DAKOTA AREA			
Request	**Capacity**	**Area**	**Proposed Point of Interconnection**
GEN-2005-008IS	50	WAPA	Hilken 230kV [Ecklund 230kV]
GEN-2006-015IS	50	WAPA	Hilken 230kV [Ecklund 230kV]
GEN-2007-015IS	100	WAPA	Hilken 230kV [Ecklund 230kV]
GEN-2009-026IS	110	WAPA	Dickenson-Heskett 230kV
GEN-2012-012IS	75	WAPA	Wolf Point-Circle 115kV
GEN-2014-006IS	125	WAPA	Williston 115kV
GEN-2014-010IS	150	WAPA	Neset 115kV
GEN-2014-014IS	151.5	WAPA	Belfield-Rhame 230kV
GEN-2015-046	300	WAPA	Tande 345kV
GEN-2015-096	150	WAPA	Tap Belfield - Rhame 230kV
GEN-2016-004	202	WAPA	Leland Olds 230kV
GEN-2016-052	3.3	WAPA	Hilken 230kV
GEN-2016-053	3.3	WAPA	Hilken 230kV
MPC01300	455	OTP	Square Butte 230 kV
MPC02100	100	OTP	Center - Mandan 230 kV
PRIOR QUEUED SUBTOTAL	**2,025.10**		
GEN-2016-130	202	WAPA	Leland Olds 345kV
GEN-2016-151	202	WAPA	Tande 345kV Sub
GEN-2016-155	1.3	WAPA	Hilken 230kV switching station
CURRENT CLUSTER SUBTOTAL	**405.30**		
AREA TOTAL	**2,430.40**		

GROUP 17: W-SOUTH DAKOTA AREA			
Request	**Capacity**	**Area**	**Proposed Point of Interconnection**
GEN-2006-002IS	51	WAPA	Wessington Springs 230kV
GEN-2009-020AIS	130.5	WAPA	Tripp Junction 115kV
GEN-2016-054	3.4	WAPA	Wessington Springs 230kV
PRIOR QUEUED SUBTOTAL	**184.90**		
AREA TOTAL	**184.90**		

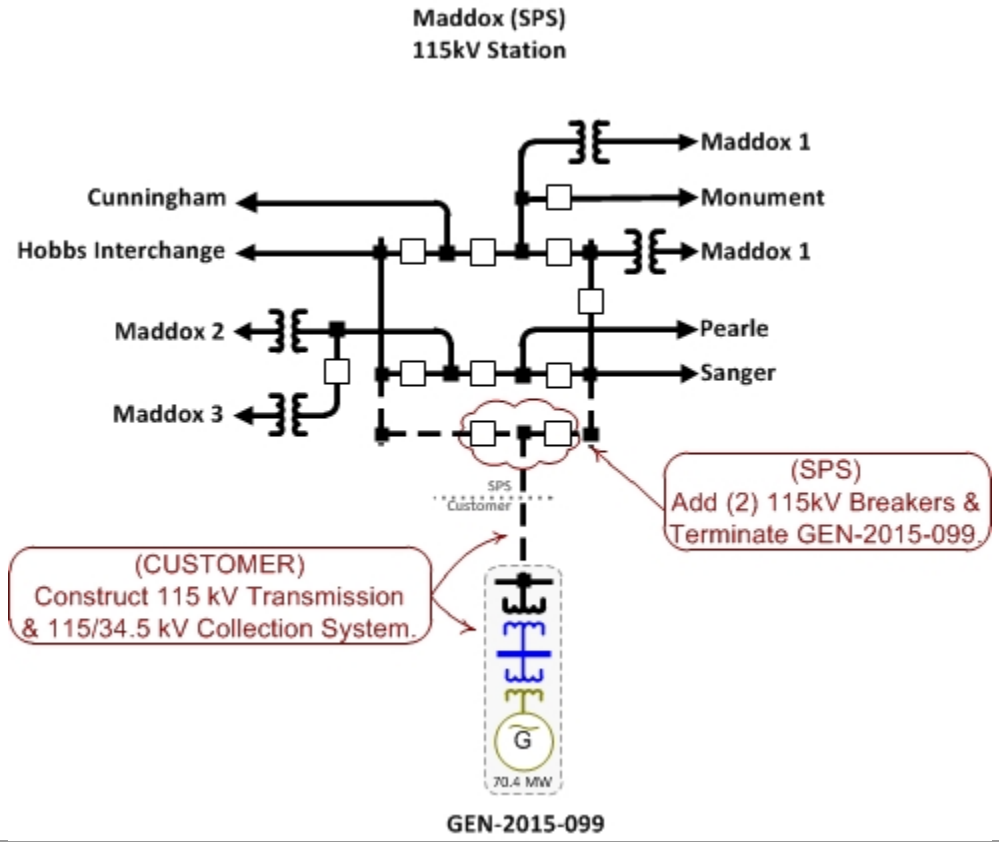
GROUP 18: E-NORTH DAKOTA AREA			
Request	**Capacity**	**Area**	**Proposed Point of Interconnection**
GEN-2002-008IS	40.5	WAPA	Edgeley 115kV [Pomona 115kV]
GEN-2005-003IS	100	WAPA	Nelson 115kV
GEN-2006-006IS	10	XEL	Marshall 115kV
GEN-2007-020IS	16	WAPA	Nelson 115kV
GEN-2008-008IS	5	WAPA	Nelson 115kV
GEN-2016-007	100	WAPA	Valley City 115kV
MPC00100	99	OTP	Langdon 115 kV
MPC00200	60	OTP	Langdon 115 kV
MPC00300	40.5	OTP	Langdon 115 kV
MPC00500	378.8	OTP	Maple River 230 kV
MPC01200	49.6	OTP	Maple River 230 kV
PRIOR QUEUED SUBTOTAL	**899.40**		
AREA TOTAL	**899.40**		

CLUSTER TOTAL (CURRENT STUDY)	**12,180.0**	**MW**
PQ TOTAL (PRIOR QUEUED)	**42,250.0**	**MW**
CLUSTER TOTAL (INCLUDING PRIOR QUEUED)	**54,430.0**	**MW**

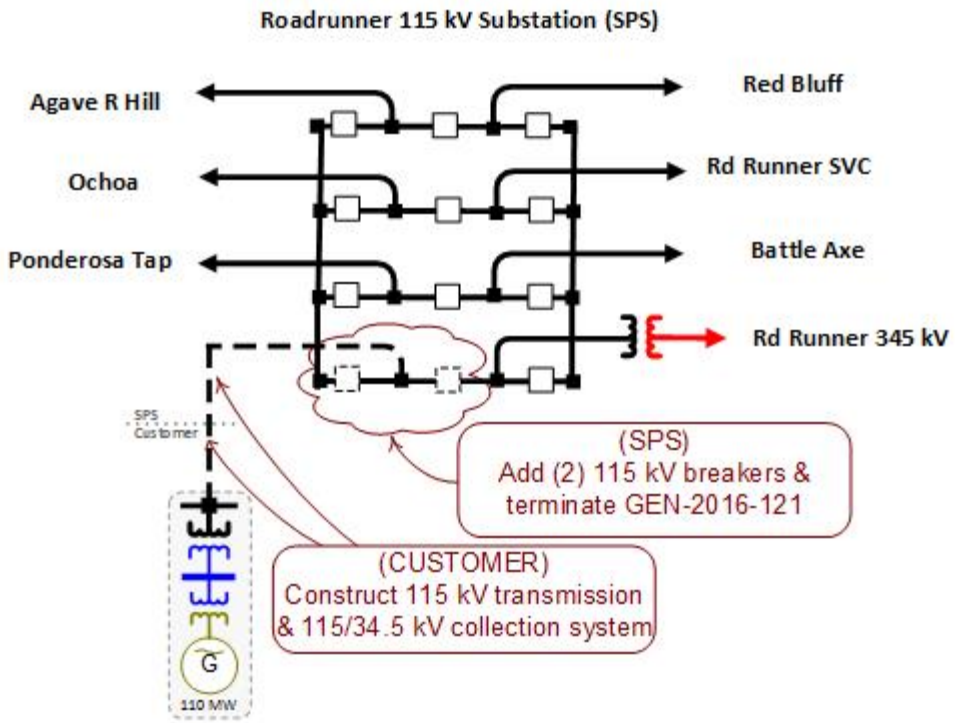
D: PROPOSED POINT OF INTERCONNECTION ONE-LINE DIAGRAMS



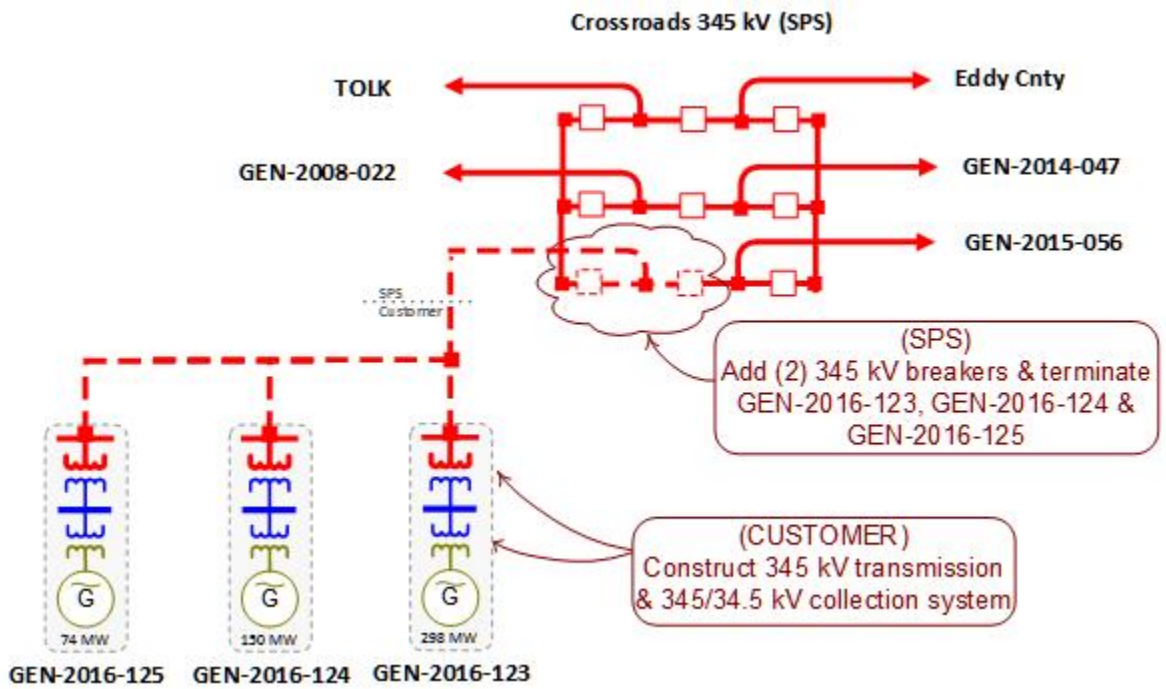
Interconnection Request: GEN-2015-099
Cluster Interconnection Costs: $4,688,000



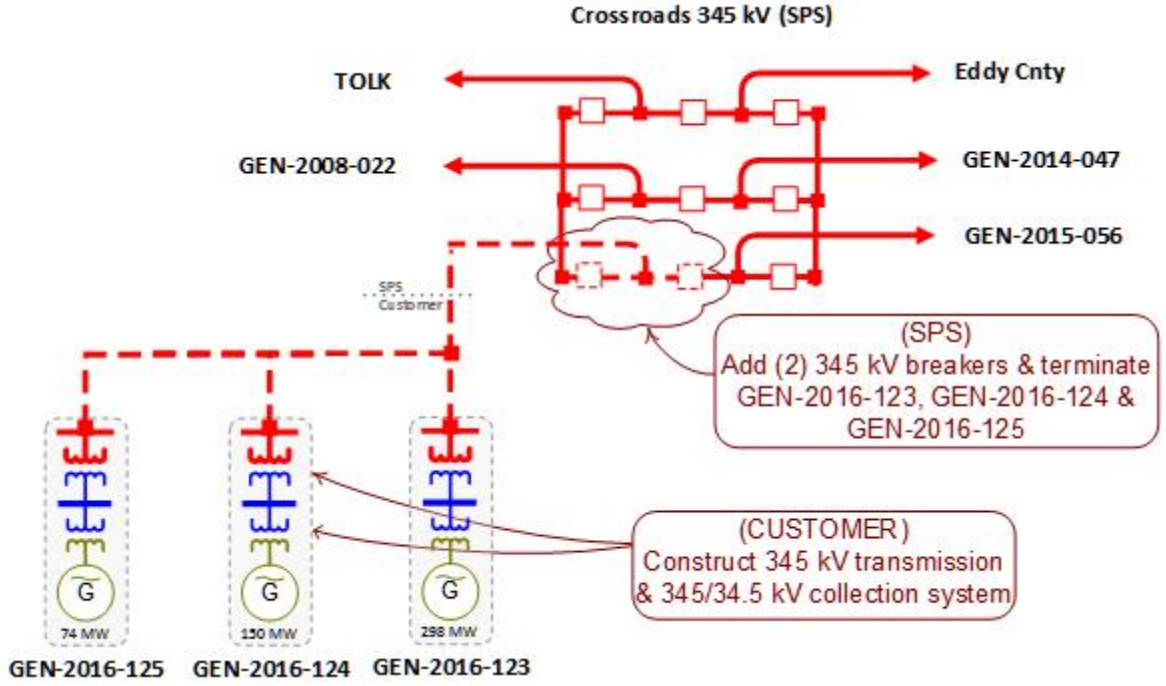
Interconnection Request: GEN-2016-121
Cluster Interconnection Costs: $2,799,536



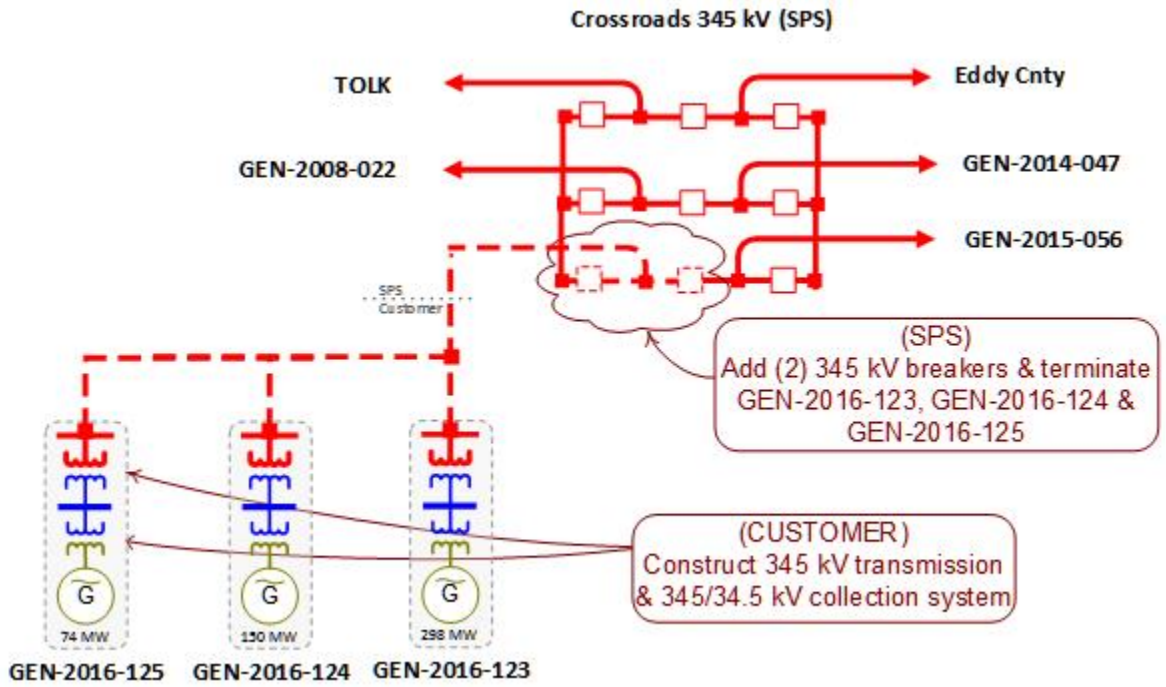
Interconnection Request: GEN-2016-123
Cluster Interconnection Costs: $1,585,403



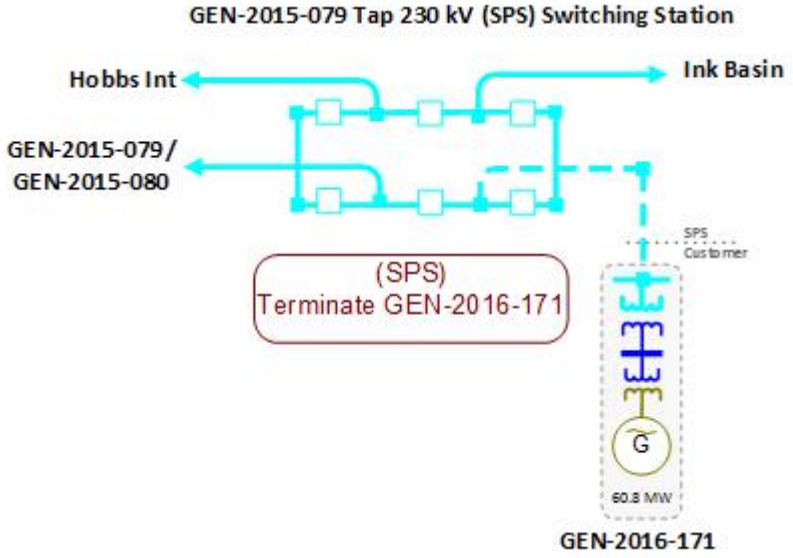
Interconnection Request: GEN-2016-124
Cluster Interconnection Costs: $1,585,403



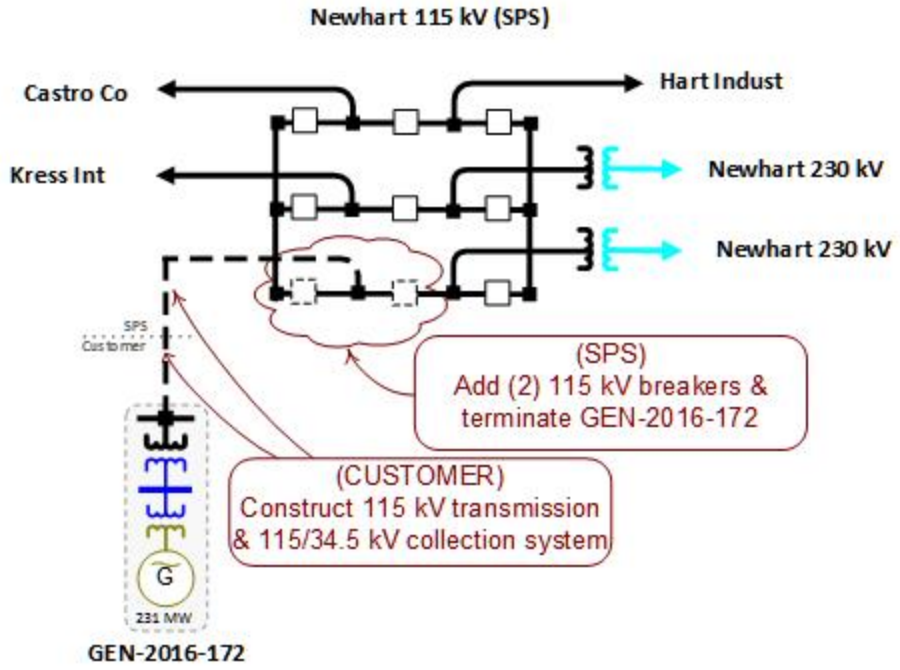
Interconnection Request: GEN-2016-125
Cluster Interconnection Costs: $1,585,403



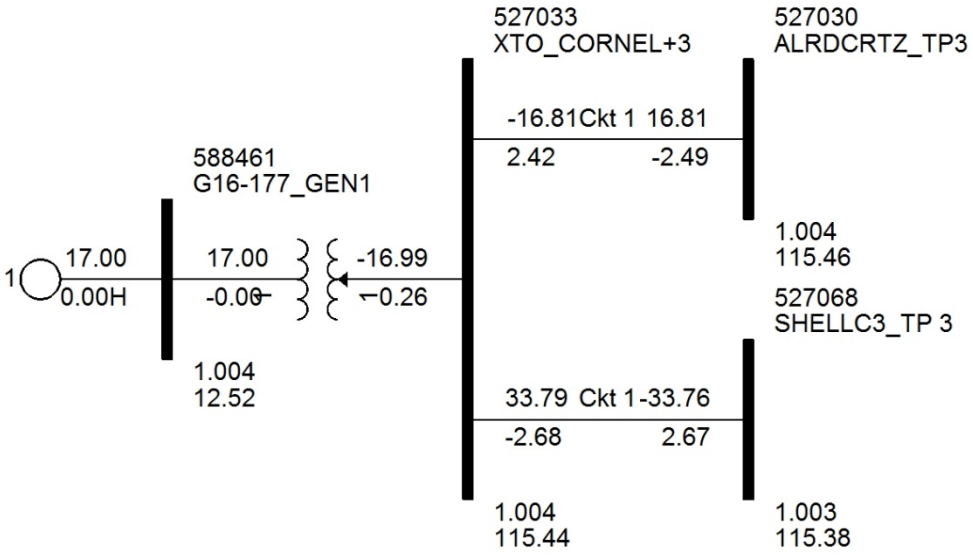
Interconnection Request: GEN-2016-171
Cluster Interconnection Costs: $210,000



Interconnection Request: GEN-2016-172
Cluster Interconnection Costs: $1,166,280



Interconnection Request: GEN-2016-177
Cluster Interconnection Costs: $1,458,215



E: COST ALLOCATION PER REQUEST

Appendix E. Cost Allocation Per Request

(Including Previously Allocated Network Upgrades*)

Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
ASGI-2016-009			
ASGI-2016-009 Interconnection Costs See One-Line Diagram.	Current Study	$0	$0
Border 345 kV Capacitive Reactive Support (OKGE) Install +150Mvar Capacitor Bank(s) at Border 345kV	Current Study	$11,467	$3,900,000
Crawfish Draw (SPS) - Lawton Eastside 345kV CKT 1 (AEP) Build ~250 miles of new 345kV from Crawfish Draw - Lawton Eastside with a minimum normal/emergency rating of 1195 MVA.	Current Study	$1,117,318	$380,000,000
Crawfish Draw 345 kV Capacitive Reactive Support (SPS) Stability Install +200Mvar Capacitor Bank(s) at Crawfish Draw 345kV.	Current Study	$16,466	$5,600,000
Crawfish Draw 345 kV Dynamic Reactive Support (SPS) Install +225/-150Mvar SVC Injection at Crawfish Draw 345kV.	Current Study	$99,971	$34,000,000
Crawfish Draw 345/230/12.8 kV CKT 1 Transformer (SPS) Build new 345/230/12.8 kV Transformer circuit #2 at Crawfish Draw	Current Study	$309,728	$24,764,205
Crossroads 345 kV Capacitive Reactive Support (SPS) Install +200Mvar Capacitor Bank(s) at Crossroads 345kV	Current Study	$16,466	$5,600,000
Grapevine (SPS) - Chisholm (AEP) 345 kV CKT 1 Build ~75 miles of new 345kV from Grapevine - Chisholm with a minimum normal/emergency rating of 1195 MVA.	Current Study	$335,196	$114,000,000
Oklaunion 345 kV Capacitive Reactive Support (AEP) Install +130Mvar Capacitor Bank(s) at Oklaunion 345kV.	Current Study	$33,637	$11,440,000
Oklaunion 345 kV Dynamic Reactive Support (AEP) Install +300/-150Mvar SVC Injection at Oklaunion 345kV.	Current Study	$117,612	$40,000,000
Potter 345 kV Capacitive Reactive Support (SPS) Install +100Mvar Capacitor Bank(s) at Potter 345kV	Current Study	$8,233	$2,800,000
Potter County - Grapevine 345 kV CKT 1 (SPS) Build ~65 miles of new 345kV from Potter County - Grapevine with a minimum normal/emergency rating of 1195 MVA.	Current Study	$289,621	$98,500,000
Rebuild Elk City 230/138 kV Transformer Terminal Equipment Upgrade station equipment to achieve a minimum normal rating of 294 MVA.	Current Study	$5,483	$2,000,000
SPP NTC 200309 (Hobbs - Yoakum 345 kV CKT 1) Construct new 52-mile 345 kV line from Hobbs to Yoakum.	Previously Allocated		$87,349,796

* Withdrawal of higher queued projects will cause a restudy and may result in higher costs

Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
SPP NTC 200395 (Tuco - Yoakum 345 kV CKT 1) Construct new 107-mile 345 kV line from Tuco to Yoakum. Install any necessary 345 kV terminal equipment at Yoakum associated with new 345/230 kV transformer.	Previously Allocated		$123,902,322
SPP NTC 210484 (Yoakum 345/230 kV CKT 1 Transformer) Install new 345/230 kV 640 MVA transformer at Yoakum substation. Install any necessary 230 kV terminal equipment.	Previously Allocated		$4,703,455
SPP NTC 210507 (Eddy County - Kiowa 345 kV CKT 1) Build new 34 mile 345 kV line from Eddy County to Kiowa.	Previously Allocated		$63,730,259
	Current Study Total	$2,361,198	

GEN-2015-099

Border 345 kV Capacitive Reactive Support (OKGE) Install +150Mvar Capacitor Bank(s) at Border 345kV	Current Study	$280,182	$3,900,000
Crawfish Draw (SPS) - Lawton Eastside 345kV CKT 1 (AEP) Build ~250 miles of new 345kV from Crawfish Draw - Lawton Eastside with a minimum normal/emergency rating of 1195 MVA.	Current Study	$27,299,814	$380,000,000
Crawfish Draw 345 kV Capacitive Reactive Support (SPS) Stability Install +200Mvar Capacitor Bank(s) at Crawfish Draw 345kV.	Current Study	$402,313	$5,600,000
Crawfish Draw 345 kV Dynamic Reactive Support (SPS) Install +225/-150Mvar SVC Injection at Crawfish Draw 345kV.	Current Study	$2,442,615	$34,000,000
Crawfish Draw 345/230/12.8 kV CKT 1 Transformer (SPS) Build new 345/230/12.8 kV Transformer circuit #2 at Crawfish Draw	Current Study	$1,696,439	$24,764,205
Crossroads - Tolk 345 kV CKT 1 (SPS) Replace approximately 4 structures on the Tolk – Crossroads 345 kV line and add equipment necessary to achieve a minimum emergency rating of 921 MVA	Current Study	$377,297	$10,200,000
Crossroads 345 kV Capacitive Reactive Support (SPS) Install +200Mvar Capacitor Bank(s) at Crossroads 345kV	Current Study	$402,313	$5,600,000
GEN-2015-099 Interconnection Costs See One-Line Diagram.	Current Study	$4,688,000	$4,688,000
Grapevine (SPS) - Chisholm (AEP) 345 kV CKT 1 Build ~75 miles of new 345kV from Grapevine - Chisholm with a minimum normal/emergency rating of 1195 MVA.	Current Study	$8,189,944	$114,000,000
Oklaunion 345 kV Capacitive Reactive Support (AEP) Install +130Mvar Capacitor Bank(s) at Oklaunion 345kV.	Current Study	$821,868	$11,440,000
Oklaunion 345 kV Dynamic Reactive Support (AEP) Install +300/-150Mvar SVC Injection at Oklaunion 345kV.	Current Study	$2,873,665	$40,000,000
Potter 345 kV Capacitive Reactive Support (SPS) Install +100Mvar Capacitor Bank(s) at Potter 345kV	Current Study	$201,157	$2,800,000

* Withdrawal of higher queued projects will cause a restudy and may result in higher costs

Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
Potter County - Grapevine 345 kV CKT 1 (SPS) Build ~65 miles of new 345kV from Potter County - Grapevine with a minimum normal/emergency rating of 1195 MVA.	Current Study	$7,076,399	$98,500,000
Rebuild Elk City 230/138 kV Transformer Terminal Equipment Upgrade station equipment to achieve a minimum normal rating of 294 MVA.	Current Study	$138,062	$2,000,000
SPP NTC 200309 (Hobbs - Yoakum 345 kV CKT 1) Construct new 52-mile 345 kV line from Hobbs to Yoakum.	Previously Allocated		$87,349,796
SPP NTC 200395 (Tuco - Yoakum 345 kV CKT 1) Construct new 107-mile 345 kV line from Tuco to Yoakum. Install any necessary 345 kV terminal equipment at Yoakum associated with new 345/230 kV transformer.	Previously Allocated		$123,902,322
SPP NTC 210484 (Yoakum 345/230 kV CKT 1 Transformer) Install new 345/230 kV 640 MVA transformer at Yoakum substation. Install any necessary 230 kV terminal equipment.	Previously Allocated		$4,703,455
SPP NTC 210507 (Eddy County - Kiowa 345 kV CKT 1) Build new 34 mile 345 kV line from Eddy County to Kiowa.	Previously Allocated		$63,730,259
	Current Study Total	$56,890,067	

GEN-2016-121

Border 345 kV Capacitive Reactive Support (OKGE) Install +150Mvar Capacitor Bank(s) at Border 345kV	Current Study	$420,465	$3,900,000
Crawfish Draw (SPS) - Lawton Eastside 345kV CKT 1 (AEP) Build ~250 miles of new 345kV from Crawfish Draw - Lawton Eastside with a minimum normal/emergency rating of 1195 MVA.	Current Study	$40,968,343	$380,000,000
Crawfish Draw 345 kV Capacitive Reactive Support (SPS) Stability Install +200Mvar Capacitor Bank(s) at Crawfish Draw 345kV.	Current Study	$603,744	$5,600,000
Crawfish Draw 345 kV Dynamic Reactive Support (SPS) Install +225/-150Mvar SVC Injection at Crawfish Draw 345kV.	Current Study	$3,665,589	$34,000,000
Crawfish Draw 345/230/12.8 kV CKT 1 Transformer (SPS) Build new 345/230/12.8 kV Transformer circuit #2 at Crawfish Draw	Current Study	$2,086,036	$24,764,205
Crossroads - Tolk 345 kV CKT 1 (SPS) Replace approximately 4 structures on the Tolk – Crossroads 345 kV line and add equipment necessary to achieve a minimum emergency rating of 921 MVA	Current Study	$713,335	$10,200,000
Crossroads 345 kV Capacitive Reactive Support (SPS) Install +200Mvar Capacitor Bank(s) at Crossroads 345kV	Current Study	$603,744	$5,600,000
GEN-2016-121 Interconnection Costs See One-Line Diagram.	Current Study	$2,799,536	$2,799,536
Grapevine (SPS) - Chisholm (AEP) 345 kV CKT 1 Build ~75 miles of new 345kV from Grapevine - Chisholm with a minimum normal/emergency rating of 1195 MVA.	Current Study	$12,290,503	$114,000,000

* Withdrawal of higher queued projects will cause a restudy and may result in higher costs

Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
Oklaunion 345 kV Capacitive Reactive Support (AEP) Install +130Mvar Capacitor Bank(s) at Oklaunion 345kV.	Current Study	$1,233,363	$11,440,000
Oklaunion 345 kV Dynamic Reactive Support (AEP) Install +300/-150Mvar SVC Injection at Oklaunion 345kV.	Current Study	$4,312,457	$40,000,000
Potter 345 kV Capacitive Reactive Support (SPS) Install +100Mvar Capacitor Bank(s) at Potter 345kV	Current Study	$301,872	$2,800,000
Potter County - Grapevine 345 kV CKT 1 (SPS) Build ~65 miles of new 345kV from Potter County - Grapevine with a minimum normal/emergency rating of 1195 MVA.	Current Study	$10,619,426	$98,500,000
Rebuild Elk City 230/138 kV Transformer Terminal Equipment Upgrade station equipment to achieve a minimum normal rating of 294 MVA.	Current Study	$208,029	$2,000,000
SPP NTC 200309 (Hobbs - Yoakum 345 kV CKT 1) Construct new 52-mile 345 kV line from Hobbs to Yoakum.	Previously Allocated		$87,349,796
SPP NTC 200395 (Tuco - Yoakum 345 kV CKT 1) Construct new 107-mile 345 kV line from Tuco to Yoakum. Install any necessary 345 kV terminal equipment at Yoakum associated with new 345/230 kV transformer.	Previously Allocated		$123,902,322
SPP NTC 210484 (Yoakum 345/230 kV CKT 1 Transformer) Install new 345/230 kV 640 MVA transformer at Yoakum substation. Install any necessary 230 kV terminal equipment.	Previously Allocated		$4,703,455
SPP NTC 210507 (Eddy County - Kiowa 345 kV CKT 1) Build new 34 mile 345 kV line from Eddy County to Kiowa.	Previously Allocated		$63,730,259
	Current Study Total	$80,826,440	

GEN-2016-123

Border 345 kV Capacitive Reactive Support (OKGE) Install +150Mvar Capacitor Bank(s) at Border 345kV	Current Study	$1,139,077	$3,900,000
Crawfish Draw (SPS) - Lawton Eastside 345kV CKT 1 (AEP) Build ~250 miles of new 345kV from Crawfish Draw - Lawton Eastside with a minimum normal/emergency rating of 1195 MVA.	Current Study	$110,986,965	$380,000,000
Crawfish Draw 345 kV Capacitive Reactive Support (SPS) Stability Install +200Mvar Capacitor Bank(s) at Crawfish Draw 345kV.	Current Study	$1,635,597	$5,600,000
Crawfish Draw 345 kV Dynamic Reactive Support (SPS) Install +225/-150Mvar SVC Injection at Crawfish Draw 345kV.	Current Study	$9,930,413	$34,000,000
Crossroads - Eddy County 345 kV CKT 1 (SPS) Replace 2 x 345 kV structures, wave traps (3x), and jumpers to achieve minimum emergency rating of 972 MVA	Current Study	$1,427,203	$2,500,000
Crossroads - Tolk 345 kV CKT 1 (SPS) Replace approximately 4 structures on the Tolk – Crossroads 345 kV line and add equipment necessary to achieve a minimum emergency rating of 921 MVA	Current Study	$5,041,488	$10,200,000

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Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
Crossroads 345 kV Capacitive Reactive Support (SPS) Install +200Mvar Capacitor Bank(s) at Crossroads 345kV	Current Study	$1,635,597	$5,600,000
GEN-2016-123 Interconnection Costs See One-Line Diagram.	Current Study	$1,585,403	$1,585,403
Grapevine (SPS) - Chisholm (AEP) 345 kV CKT 1 Build ~75 miles of new 345kV from Grapevine - Chisholm with a minimum normal/emergency rating of 1195 MVA.	Current Study	$33,296,089	$114,000,000
Oklaunion 345 kV Capacitive Reactive Support (AEP) Install +130Mvar Capacitor Bank(s) at Oklaunion 345kV.	Current Study	$3,341,292	$11,440,000
Oklaunion 345 kV Dynamic Reactive Support (AEP) Install +300/-150Mvar SVC Injection at Oklaunion 345kV.	Current Study	$11,682,838	$40,000,000
Potter 345 kV Capacitive Reactive Support (SPS) Install +100Mvar Capacitor Bank(s) at Potter 345kV	Current Study	$817,799	$2,800,000
Potter County - Grapevine 345 kV CKT 1 (SPS) Build ~65 miles of new 345kV from Potter County - Grapevine with a minimum normal/emergency rating of 1195 MVA.	Current Study	$28,768,990	$98,500,000
Rebuild Elk City 230/138 kV Transformer Terminal Equipment Upgrade station equipment to achieve a minimum normal rating of 294 MVA.	Current Study	$586,232	$2,000,000
SPP NTC 200309 (Hobbs - Yoakum 345 kV CKT 1) Construct new 52-mile 345 kV line from Hobbs to Yoakum.	Previously Allocated		$87,349,796
SPP NTC 200395 (Tuco - Yoakum 345 kV CKT 1) Construct new 107-mile 345 kV line from Tuco to Yoakum. Install any necessary 345 kV terminal equipment at Yoakum associated with new 345/230 kV transformer.	Previously Allocated		$123,902,322
SPP NTC 210484 (Yoakum 345/230 kV CKT 1 Transformer) Install new 345/230 kV 640 MVA transformer at Yoakum substation. Install any necessary 230 kV terminal equipment.	Previously Allocated		$4,703,455
SPP NTC 210507 (Eddy County - Kiowa 345 kV CKT 1) Build new 34 mile 345 kV line from Eddy County to Kiowa.	Previously Allocated		$63,730,259
	Current Study Total	$211,874,982	

GEN-2016-124

Border 345 kV Capacitive Reactive Support (OKGE) Install +150Mvar Capacitor Bank(s) at Border 345kV	Current Study	$573,361	$3,900,000
Crawfish Draw (SPS) - Lawton Eastside 345kV CKT 1 (AEP) Build ~250 miles of new 345kV from Crawfish Draw - Lawton Eastside with a minimum normal/emergency rating of 1195 MVA.	Current Study	$55,865,922	$380,000,000
Crawfish Draw 345 kV Capacitive Reactive Support (SPS) Stability Install +200Mvar Capacitor Bank(s) at Crawfish Draw 345kV.	Current Study	$823,287	$5,600,000

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Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
Crawfish Draw 345 kV Dynamic Reactive Support (SPS) Install +225/-150Mvar SVC Injection at Crawfish Draw 345kV.	Current Study	$4,998,530	$34,000,000
Crossroads - Eddy County 345 kV CKT 1 (SPS) Replace 2 x 345 kV structures, wave traps (3x), and jumpers to achieve minimum emergency rating of 972 MVA	Current Study	$718,391	$2,500,000
Crossroads - Tolk 345 kV CKT 1 (SPS) Replace approximately 4 structures on the Tolk – Crossroads 345 kV line and add equipment necessary to achieve a minimum emergency rating of 921 MVA	Current Study	$2,537,662	$10,200,000
Crossroads 345 kV Capacitive Reactive Support (SPS) Install +200Mvar Capacitor Bank(s) at Crossroads 345kV	Current Study	$823,287	$5,600,000
GEN-2016-124 Interconnection Costs See One-Line Diagram.	Current Study	$1,585,403	$1,585,403
Grapevine (SPS) - Chisholm (AEP) 345 kV CKT 1 Build ~75 miles of new 345kV from Grapevine - Chisholm with a minimum normal/emergency rating of 1195 MVA.	Current Study	$16,759,777	$114,000,000
Oklaunion 345 kV Capacitive Reactive Support (AEP) Install +130Mvar Capacitor Bank(s) at Oklaunion 345kV.	Current Study	$1,681,858	$11,440,000
Oklaunion 345 kV Dynamic Reactive Support (AEP) Install +300/-150Mvar SVC Injection at Oklaunion 345kV.	Current Study	$5,880,623	$40,000,000
Potter 345 kV Capacitive Reactive Support (SPS) Install +100Mvar Capacitor Bank(s) at Potter 345kV	Current Study	$411,644	$2,800,000
Potter County - Grapevine 345 kV CKT 1 (SPS) Build ~65 miles of new 345kV from Potter County - Grapevine with a minimum normal/emergency rating of 1195 MVA.	Current Study	$14,481,035	$98,500,000
Rebuild Elk City 230/138 kV Transformer Terminal Equipment Upgrade station equipment to achieve a minimum normal rating of 294 MVA.	Current Study	$295,083	$2,000,000
SPP NTC 200309 (Hobbs - Yoakum 345 kV CKT 1) Construct new 52-mile 345 kV line from Hobbs to Yoakum.	Previously Allocated		$87,349,796
SPP NTC 200395 (Tuco - Yoakum 345 kV CKT 1) Construct new 107-mile 345 kV line from Tuco to Yoakum. Install any necessary 345 kV terminal equipment at Yoakum associated with new 345/230 kV transformer.	Previously Allocated		$123,902,322
SPP NTC 210484 (Yoakum 345/230 kV CKT 1 Transformer) Install new 345/230 kV 640 MVA transformer at Yoakum substation. Install any necessary 230 kV terminal equipment.	Previously Allocated		$4,703,455
SPP NTC 210507 (Eddy County - Kiowa 345 kV CKT 1) Build new 34 mile 345 kV line from Eddy County to Kiowa.	Previously Allocated		$63,730,259
	Current Study Total	$107,435,863	

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Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
GEN-2016-125			
Border 345 kV Capacitive Reactive Support (OKGE) Install +150Mvar Capacitor Bank(s) at Border 345kV	Current Study	$282,858	$3,900,000
Crawfish Draw (SPS) - Lawton Eastside 345kV CKT 1 (AEP) Build ~250 miles of new 345kV from Crawfish Draw - Lawton Eastside with a minimum normal/emergency rating of 1195 MVA.	Current Study	$27,560,521	$380,000,000
Crawfish Draw 345 kV Capacitive Reactive Support (SPS) Stability Install +200Mvar Capacitor Bank(s) at Crawfish Draw 345kV.	Current Study	$406,155	$5,600,000
Crawfish Draw 345 kV Dynamic Reactive Support (SPS) Install +225/-150Mvar SVC Injection at Crawfish Draw 345kV.	Current Study	$2,465,941	$34,000,000
Crossroads - Eddy County 345 kV CKT 1 (SPS) Replace 2 x 345 kV structures, wave traps (3x), and jumpers to achieve minimum emergency rating of 972 MVA	Current Study	$354,406	$2,500,000
Crossroads - Tolk 345 kV CKT 1 (SPS) Replace approximately 4 structures on the Tolk – Crossroads 345 kV line and add equipment necessary to achieve a minimum emergency rating of 921 MVA	Current Study	$1,251,913	$10,200,000
Crossroads 345 kV Capacitive Reactive Support (SPS) Install +200Mvar Capacitor Bank(s) at Crossroads 345kV	Current Study	$406,155	$5,600,000
GEN-2016-125 Interconnection Costs See One-Line Diagram.	Current Study	$1,585,403	$1,585,403
Grapevine (SPS) - Chisholm (AEP) 345 kV CKT 1 Build ~75 miles of new 345kV from Grapevine - Chisholm with a minimum normal/emergency rating of 1195 MVA.	Current Study	$8,268,156	$114,000,000
Oklaunion 345 kV Capacitive Reactive Support (AEP) Install +130Mvar Capacitor Bank(s) at Oklaunion 345kV.	Current Study	$829,717	$11,440,000
Oklaunion 345 kV Dynamic Reactive Support (AEP) Install +300/-150Mvar SVC Injection at Oklaunion 345kV.	Current Study	$2,901,108	$40,000,000
Potter 345 kV Capacitive Reactive Support (SPS) Install +100Mvar Capacitor Bank(s) at Potter 345kV	Current Study	$203,078	$2,800,000
Potter County - Grapevine 345 kV CKT 1 (SPS) Build ~65 miles of new 345kV from Potter County - Grapevine with a minimum normal/emergency rating of 1195 MVA.	Current Study	$7,143,977	$98,500,000
Rebuild Elk City 230/138 kV Transformer Terminal Equipment Upgrade station equipment to achieve a minimum normal rating of 294 MVA.	Current Study	$145,574	$2,000,000
SPP NTC 200309 (Hobbs - Yoakum 345 kV CKT 1) Construct new 52-mile 345 kV line from Hobbs to Yoakum.	Previously Allocated		$87,349,796
SPP NTC 200395 (Tuco - Yoakum 345 kV CKT 1) Construct new 107-mile 345 kV line from Tuco to Yoakum. Install any necessary 345 kV terminal equipment at Yoakum associated with new 345/230 kV transformer.	Previously Allocated		$123,902,322

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Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
SPP NTC 210484 (Yoakum 345/230 kV CKT 1 Transformer) Install new 345/230 kV 640 MVA transformer at Yoakum substation. Install any necessary 230 kV terminal equipment.	Previously Allocated		$4,703,455
SPP NTC 210507 (Eddy County - Kiowa 345 kV CKT 1) Build new 34 mile 345 kV line from Eddy County to Kiowa.	Previously Allocated		$63,730,259
	Current Study Total	$53,804,963	
GEN-2016-171			
Border 345 kV Capacitive Reactive Support (OKGE) Install +150Mvar Capacitor Bank(s) at Border 345kV	Current Study	$244,634	$3,900,000
Crawfish Draw (SPS) - Lawton Eastside 345kV CKT 1 (AEP) Build ~250 miles of new 345kV from Crawfish Draw - Lawton Eastside with a minimum normal/emergency rating of 1195 MVA.	Current Study	$23,836,127	$380,000,000
Crawfish Draw 345 kV Capacitive Reactive Support (SPS) Stability Install +200Mvar Capacitor Bank(s) at Crawfish Draw 345kV.	Current Study	$351,269	$5,600,000
Crawfish Draw 345 kV Dynamic Reactive Support (SPS) Install +225/-150Mvar SVC Injection at Crawfish Draw 345kV.	Current Study	$2,132,706	$34,000,000
Crawfish Draw 345/230/12.8 kV CKT 1 Transformer (SPS) Build new 345/230/12.8 kV Transformer circuit #2 at Crawfish Draw	Current Study	$1,588,835	$24,764,205
Crossroads - Tolk 345 kV CKT 1 (SPS) Replace approximately 4 structures on the Tolk – Crossroads 345 kV line and add equipment necessary to achieve a minimum emergency rating of 921 MVA	Current Study	$278,306	$10,200,000
Crossroads 345 kV Capacitive Reactive Support (SPS) Install +200Mvar Capacitor Bank(s) at Crossroads 345kV	Current Study	$351,269	$5,600,000
GEN-2016-171 Interconnection Costs See One-Line Diagram.	Current Study	$210,000	$210,000
Grapevine (SPS) - Chisholm (AEP) 345 kV CKT 1 Build ~75 miles of new 345kV from Grapevine - Chisholm with a minimum normal/emergency rating of 1195 MVA.	Current Study	$7,150,838	$114,000,000
Oklaunion 345 kV Capacitive Reactive Support (AEP) Install +130Mvar Capacitor Bank(s) at Oklaunion 345kV.	Current Study	$717,593	$11,440,000
Oklaunion 345 kV Dynamic Reactive Support (AEP) Install +300/-150Mvar SVC Injection at Oklaunion 345kV.	Current Study	$2,509,066	$40,000,000
Potter 345 kV Capacitive Reactive Support (SPS) Install +100Mvar Capacitor Bank(s) at Potter 345kV	Current Study	$175,635	$2,800,000
Potter County - Grapevine 345 kV CKT 1 (SPS) Build ~65 miles of new 345kV from Potter County - Grapevine with a minimum normal/emergency rating of 1195 MVA.	Current Study	$6,178,575	$98,500,000

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Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
Rebuild Elk City 230/138 kV Transformer Terminal Equipment Upgrade station equipment to achieve a minimum normal rating of 294 MVA.	Current Study	$120,262	$2,000,000
SPP NTC 200309 (Hobbs - Yoakum 345 kV CKT 1) Construct new 52-mile 345 kV line from Hobbs to Yoakum.	Previously Allocated		$87,349,796
SPP NTC 200395 (Tuco - Yoakum 345 kV CKT 1) Construct new 107-mile 345 kV line from Tuco to Yoakum. Install any necessary 345 kV terminal equipment at Yoakum associated with new 345/230 kV transformer.	Previously Allocated		$123,902,322
SPP NTC 210484 (Yoakum 345/230 kV CKT 1 Transformer) Install new 345/230 kV 640 MVA transformer at Yoakum substation. Install any necessary 230 kV terminal equipment.	Previously Allocated		$4,703,455
SPP NTC 210507 (Eddy County - Kiowa 345 kV CKT 1) Build new 34 mile 345 kV line from Eddy County to Kiowa.	Previously Allocated		$63,730,259
	Current Study Total	$45,845,115	
GEN-2016-172			
Border 345 kV Capacitive Reactive Support (OKGE) Install +150Mvar Capacitor Bank(s) at Border 345kV	Current Study	$882,976	$3,900,000
Crawfish Draw (SPS) - Lawton Eastside 345kV CKT 1 (AEP) Build ~250 miles of new 345kV from Crawfish Draw - Lawton Eastside with a minimum normal/emergency rating of 1195 MVA.	Current Study	$86,033,520	$380,000,000
Crawfish Draw 345 kV Capacitive Reactive Support (SPS) Stability Install +200Mvar Capacitor Bank(s) at Crawfish Draw 345kV.	Current Study	$1,267,862	$5,600,000
Crawfish Draw 345 kV Dynamic Reactive Support (SPS) Install +225/-150Mvar SVC Injection at Crawfish Draw 345kV.	Current Study	$7,697,736	$34,000,000
Crawfish Draw 345/230/12.8 kV CKT 1 Transformer (SPS) Build new 345/230/12.8 kV Transformer circuit #2 at Crawfish Draw	Current Study	$19,083,166	$24,764,205
Crossroads 345 kV Capacitive Reactive Support (SPS) Install +200Mvar Capacitor Bank(s) at Crossroads 345kV	Current Study	$1,267,862	$5,600,000
GEN-2016-172 Interconnection Costs See One-Line Diagram.	Current Study	$1,166,280	$1,166,280
Grapevine (SPS) - Chisholm (AEP) 345 kV CKT 1 Build ~75 miles of new 345kV from Grapevine - Chisholm with a minimum normal/emergency rating of 1195 MVA.	Current Study	$25,810,056	$114,000,000
Oklaunion 345 kV Capacitive Reactive Support (AEP) Install +130Mvar Capacitor Bank(s) at Oklaunion 345kV.	Current Study	$2,590,062	$11,440,000
Oklaunion 345 kV Dynamic Reactive Support (AEP) Install +300/-150Mvar SVC Injection at Oklaunion 345kV.	Current Study	$9,056,160	$40,000,000

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Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
Potter 345 kV Capacitive Reactive Support (SPS) Install +100Mvar Capacitor Bank(s) at Potter 345kV	Current Study	$633,931	$2,800,000
Potter County - Grapevine 345 kV CKT 1 (SPS) Build ~65 miles of new 345kV from Potter County - Grapevine with a minimum normal/emergency rating of 1195 MVA.	Current Study	$22,300,794	$98,500,000
Potter County 345/230/13.3 kV CKT 2 Transformer (SPS) Build new 345/230/13.3 kV Transformer circuit #2 at Potter County Interchange	Current Study	$7,700,000	$7,700,000
Rebuild Elk City 230/138 kV Transformer Terminal Equipment Upgrade station equipment to achieve a minimum normal rating of 294 MVA.	Current Study	$501,274	$2,000,000
SPP NTC 200309 (Hobbs - Yoakum 345 kV CKT 1) Construct new 52-mile 345 kV line from Hobbs to Yoakum.	Previously Allocated		$87,349,796
SPP NTC 200395 (Tuco - Yoakum 345 kV CKT 1) Construct new 107-mile 345 kV line from Tuco to Yoakum. Install any necessary 345 kV terminal equipment at Yoakum associated with new 345/230 kV transformer.	Previously Allocated		$123,902,322
SPP NTC 210484 (Yoakum 345/230 kV CKT 1 Transformer) Install new 345/230 kV 640 MVA transformer at Yoakum substation. Install any necessary 230 kV terminal equipment.	Previously Allocated		$4,703,455
SPP NTC 210507 (Eddy County - Kiowa 345 kV CKT 1) Build new 34 mile 345 kV line from Eddy County to Kiowa.	Previously Allocated		$63,730,259
	Current Study Total	$185,991,680	

GEN-2016-177

Border 345 kV Capacitive Reactive Support (OKGE) Install +150Mvar Capacitor Bank(s) at Border 345kV	Current Study	$64,981	$3,900,000
Crawfish Draw (SPS) - Lawton Eastside 345kV CKT 1 (AEP) Build ~250 miles of new 345kV from Crawfish Draw - Lawton Eastside with a minimum normal/emergency rating of 1195 MVA.	Current Study	$6,331,471	$380,000,000
Crawfish Draw 345 kV Capacitive Reactive Support (SPS) Stability Install +200Mvar Capacitor Bank(s) at Crawfish Draw 345kV.	Current Study	$93,306	$5,600,000
Crawfish Draw 345 kV Dynamic Reactive Support (SPS) Install +225/-150Mvar SVC Injection at Crawfish Draw 345kV.	Current Study	$566,500	$34,000,000
Crossroads 345 kV Capacitive Reactive Support (SPS) Install +200Mvar Capacitor Bank(s) at Crossroads 345kV	Current Study	$93,306	$5,600,000
GEN-2016-177 Interconnection Costs See One-Line Diagram.	Current Study	$1,458,215	$1,458,215
Grapevine (SPS) - Chisholm (AEP) 345 kV CKT 1 Build ~75 miles of new 345kV from Grapevine - Chisholm with a minimum normal/emergency rating of 1195 MVA.	Current Study	$1,899,441	$114,000,000

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Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
Oklaunion 345 kV Capacitive Reactive Support (AEP) Install +130Mvar Capacitor Bank(s) at Oklaunion 345kV.	Current Study	$190,611	$11,440,000
Oklaunion 345 kV Dynamic Reactive Support (AEP) Install +300/-150Mvar SVC Injection at Oklaunion 345kV.	Current Study	$666,471	$40,000,000
Potter 345 kV Capacitive Reactive Support (SPS) Install +100Mvar Capacitor Bank(s) at Potter 345kV	Current Study	$46,653	$2,800,000
Potter County - Grapevine 345 kV CKT 1 (SPS) Build ~65 miles of new 345kV from Potter County - Grapevine with a minimum normal/emergency rating of 1195 MVA.	Current Study	$1,641,184	$98,500,000
SPP NTC 200309 (Hobbs - Yoakum 345 kV CKT 1) Construct new 52-mile 345 kV line from Hobbs to Yoakum.	Previously Allocated		$87,349,796
SPP NTC 200395 (Tuco - Yoakum 345 kV CKT 1) Construct new 107-mile 345 kV line from Tuco to Yoakum. Install any necessary 345 kV terminal equipment at Yoakum associated with new 345/230 kV transformer.	Previously Allocated		$123,902,322
SPP NTC 210484 (Yoakum 345/230 kV CKT 1 Transformer) Install new 345/230 kV 640 MVA transformer at Yoakum substation. Install any necessary 230 kV terminal equipment.	Previously Allocated		$4,703,455
SPP NTC 210507 (Eddy County - Kiowa 345 kV CKT 1) Build new 34 mile 345 kV line from Eddy County to Kiowa.	Previously Allocated		$63,730,259
	Current Study Total	$13,052,138	
	TOTAL CURRENT STUDY COSTS:	**$758,082,447**	

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F: COST ALLOCATION PER PROPOSED STUDY NETWORK UPGRADE

Appendix F. Cost Allocation by Upgrade

ASGI-2016-009 Interconnection Costs **$0**

See One-Line Diagram.

ASGI-2016-009	$0
Total Allocated Costs	**$0**

Border 345 kV Capacitive Reactive Support (OKGE) **$3,900,000**

Install +150Mvar Capacitor Bank(s) at Border 345kV

ASGI-2016-009	$11,467
GEN-2015-099	$280,182
GEN-2016-121	$420,465
GEN-2016-123	$1,139,077
GEN-2016-124	$573,361
GEN-2016-125	$282,858
GEN-2016-171	$244,634
GEN-2016-172	$882,976
GEN-2016-177	$64,981
Total Allocated Costs	**$3,900,000**

Crawfish Draw (SPS) - Lawton Eastside 345kV CKT 1 (AEP) **$380,000,000**

Build ~250 miles of new 345kV from Crawfish Draw - Lawton Eastside with a minimum normal/emergency rating of 1195 MVA.

ASGI-2016-009	$1,117,318
GEN-2015-099	$27,299,814
GEN-2016-121	$40,968,343
GEN-2016-123	$110,986,965
GEN-2016-124	$55,865,922
GEN-2016-125	$27,560,521
GEN-2016-171	$23,836,127
GEN-2016-172	$86,033,520
GEN-2016-177	$6,331,471
Total Allocated Costs	**$380,000,000**

* Withdrawal of higher queued projects will cause a restudy and may result in higher costs

Crawfish Draw 345 kV Capacitive Reactive Support (SPS) Stability **$5,600,000**

Install +200Mvar Capacitor Bank(s) at Crawfish Draw 345kV.

ASGI-2016-009	$16,466
GEN-2015-099	$402,313
GEN-2016-121	$603,744
GEN-2016-123	$1,635,597
GEN-2016-124	$823,287
GEN-2016-125	$406,155
GEN-2016-171	$351,269
GEN-2016-172	$1,267,862
GEN-2016-177	$93,306
Total Allocated Costs	**$5,600,000**

Crawfish Draw 345 kV Dynamic Reactive Support (SPS) **$34,000,000**

Install +225/-150Mvar SVC Injection at Crawfish Draw 345kV.

ASGI-2016-009	$99,971
GEN-2015-099	$2,442,615
GEN-2016-121	$3,665,589
GEN-2016-123	$9,930,413
GEN-2016-124	$4,998,530
GEN-2016-125	$2,465,941
GEN-2016-171	$2,132,706
GEN-2016-172	$7,697,736
GEN-2016-177	$566,500
Total Allocated Costs	**$34,000,000**

Crawfish Draw 345/230/12.8 kV CKT 1 Transformer (SPS) **$24,764,205**

Build new 345/230/12.8 kV Transformer circuit #2 at Crawfish Draw

ASGI-2016-009	$309,728
GEN-2015-099	$1,696,439
GEN-2016-121	$2,086,036
GEN-2016-171	$1,588,835
GEN-2016-172	$19,083,166
Total Allocated Costs	**$24,764,205**

* Withdrawal of higher queued projects will cause a restudy and may result in higher costs

Crossroads - Eddy County 345 kV CKT 1 (SPS) **$2,500,000**

Replace 2 x 345 kV structures, wave traps (3x), and jumpers to achieve minimum emergency rating of 972 MVA

GEN-2016-123	$1,427,203
GEN-2016-124	$718,391
GEN-2016-125	$354,406
Total Allocated Costs	**$2,500,000**

Crossroads - Tolk 345 kV CKT 1 (SPS) **$10,200,000**

Replace approximately 4 structures on the Tolk – Crossroads 345 kV line and add equipment necessary to achieve a minimum emergency rating of 921 MVA

GEN-2015-099	$377,297
GEN-2016-121	$713,335
GEN-2016-123	$5,041,488
GEN-2016-124	$2,537,662
GEN-2016-125	$1,251,913
GEN-2016-171	$278,306
Total Allocated Costs	**$10,200,000**

Crossroads 345 kV Capacitive Reactive Support (SPS) **$5,600,000**

Install +200Mvar Capacitor Bank(s) at Crossroads 345kV

ASGI-2016-009	$16,466
GEN-2015-099	$402,313
GEN-2016-121	$603,744
GEN-2016-123	$1,635,597
GEN-2016-124	$823,287
GEN-2016-125	$406,155
GEN-2016-171	$351,269
GEN-2016-172	$1,267,862
GEN-2016-177	$93,306
Total Allocated Costs	**$5,600,000**

* Withdrawal of higher queued projects will cause a restudy and may result in higher costs

Rebuild Elk City 230/138 kV Transformer Terminal Equipment			**$2,000,000**
Upgrade station equipment to achieve a minimum normal rating of 294 MVA.			
	ASGI-2016-009		$5,483
	GEN-2015-099		$138,062
	GEN-2016-121		$208,029
	GEN-2016-123		$586,232
	GEN-2016-124		$295,083
	GEN-2016-125		$145,574
	GEN-2016-171		$120,262
	GEN-2016-172		$501,274
	Total Allocated Costs	**$2,000,000**	
GEN-2015-099 Interconnection Costs			**$4,688,000**
See One-Line Diagram.			
	GEN-2015-099		$4,688,000
	Total Allocated Costs	**$4,688,000**	
GEN-2016-121 Interconnection Costs			**$2,799,536**
See One-Line Diagram.			
	GEN-2016-121		$2,799,536
	Total Allocated Costs	**$2,799,536**	
GEN-2016-123 Interconnection Costs			**$1,585,403**
See One-Line Diagram.			
	GEN-2016-123		$1,585,403
	Total Allocated Costs	**$1,585,403**	
GEN-2016-124 Interconnection Costs			**$1,585,403**
See One-Line Diagram.			
	GEN-2016-124		$1,585,403
	Total Allocated Costs	**$1,585,403**	
GEN-2016-125 Interconnection Costs			**$1,585,403**
See One-Line Diagram.			
	GEN-2016-125		$1,585,403
	Total Allocated Costs	**$1,585,403**	

* Withdrawal of higher queued projects will cause a restudy and may result in higher costs

GEN-2016-171 Interconnection Costs			**$210,000**
See One-Line Diagram.			
	GEN-2016-171	$210,000	
	Total Allocated Costs	**$210,000**	
GEN-2016-172 Interconnection Costs			**$1,166,280**
See One-Line Diagram.			
	GEN-2016-172	$1,166,280	
	Total Allocated Costs	**$1,166,280**	
GEN-2016-177 Interconnection Costs			**$1,458,215**
See One-Line Diagram.			
	GEN-2016-177	$1,458,215	
	Total Allocated Costs	**$1,458,215**	
Grapevine (SPS) - Chisholm (AEP) 345 kV CKT 1			**$114,000,000**
Build ~75 miles of new 345kV from Grapevine - Chisholm with a minimum normal/emergency rating of 1195 MVA.			
	ASGI-2016-009	$335,196	
	GEN-2015-099	$8,189,944	
	GEN-2016-121	$12,290,503	
	GEN-2016-123	$33,296,089	
	GEN-2016-124	$16,759,777	
	GEN-2016-125	$8,268,156	
	GEN-2016-171	$7,150,838	
	GEN-2016-172	$25,810,056	
	GEN-2016-177	$1,899,441	
	Total Allocated Costs	**$114,000,000**	

* Withdrawal of higher queued projects will cause a restudy and may result in higher costs

Oklaunion 345 kV Capacitive Reactive Support (AEP) **$11,440,000**

Install +130Mvar Capacitor Bank(s) at Oklaunion 345kV.

ASGI-2016-009	$33,637
GEN-2015-099	$821,868
GEN-2016-121	$1,233,363
GEN-2016-123	$3,341,292
GEN-2016-124	$1,681,858
GEN-2016-125	$829,717
GEN-2016-171	$717,593
GEN-2016-172	$2,590,062
GEN-2016-177	$190,611
Total Allocated Costs	**$11,440,000**

Oklaunion 345 kV Dynamic Reactive Support (AEP) **$40,000,000**

Install +300/-150Mvar SVC Injection at Oklaunion 345kV.

ASGI-2016-009	$117,612
GEN-2015-099	$2,873,665
GEN-2016-121	$4,312,457
GEN-2016-123	$11,682,838
GEN-2016-124	$5,880,623
GEN-2016-125	$2,901,108
GEN-2016-171	$2,509,066
GEN-2016-172	$9,056,160
GEN-2016-177	$666,471
Total Allocated Costs	**$40,000,000**

Potter County - Grapevine 345 kV CKT 1 (SPS) **$98,500,000**

Build ~65 miles of new 345kV from Potter County - Grapevine with a minimum normal/emergency rating of 1195 MVA.

ASGI-2016-009	$289,621
GEN-2015-099	$7,076,399
GEN-2016-121	$10,619,426
GEN-2016-123	$28,768,990
GEN-2016-124	$14,481,035
GEN-2016-125	$7,143,977
GEN-2016-171	$6,178,575
GEN-2016-172	$22,300,794
GEN-2016-177	$1,641,184
Total Allocated Costs	**$98,500,000**

* Withdrawal of higher queued projects will cause a restudy and may result in higher costs

Potter 345 kV Capacitive Reactive Support (SPS) **$2,800,000**

Install +100Mvar Capacitor Bank(s) at Potter 345kV

ASGI-2016-009		$8,233
GEN-2015-099		$201,157
GEN-2016-121		$301,872
GEN-2016-123		$817,799
GEN-2016-124		$411,644
GEN-2016-125		$203,078
GEN-2016-171		$175,635
GEN-2016-172		$633,931
GEN-2016-177		$46,653
Total Allocated Costs	**$2,800,000**	

Potter County 345/230/13.3 kV CKT 2 Transformer (SPS) **$7,700,000**

Build new 345/230/13.3 kV Transformer circuit #2 at Potter County Interchange

GEN-2016-172		$7,700,000
Total Allocated Costs	**$7,700,000**	

* Withdrawal of higher queued projects will cause a restudy and may result in higher costs

G-T: THERMAL POWER FLOW ANALYSIS (CONSTRAINTS REQUIRING TRANSMISSION REINFORCEMENT)

Legend:

Column	Definition
Solution	Solution Method
Group	Model Case Identification: • ##ALL: ERIS-HVER • 00: ERIS-LVER • ##NR or 00NR: NRIS
Scenario	Upgrade Scenario Identification
Season	Model Year and Season
Source	Gen ID producing the TDF above the limit for the constraint
Monitored Element	Monitored Bus Identification
Rate A	Planning Term Normal Rating
Rate B	Planning Term Emergency Rating
TDF	Transfer Distribution Factor for the Source
TC%LOADING	Post-transfer, loading percent for system intact or contingency
Contingency	Contingency Description

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21L	ASGI_16_09	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.05968	111.2135	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.05968	111.2135	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.07708	101.7193	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.07708	101.7193	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	1022	1143	0.42581	110.1676	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	956	1042	0.49247	107.2823	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	ASGI_16_09	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.04395	101.981	System Intact
FDNS	06ALL	0	17WP	ASGI_16_09	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.04395	101.981	System Intact
FDNS	06ALL	0	18G	ASGI_16_09	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.04115	111.6394	System Intact
FDNS	06ALL	0	18G	ASGI_16_09	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.04115	111.6394	System Intact
FDNS	06ALL	0	18SP	ASGI_16_09	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.04421	104.1695	System Intact
FDNS	06ALL	0	18SP	ASGI_16_09	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.04421	104.1695	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.03401	103.8842	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.03401	103.8842	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.03098	101.2309	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.03098	101.2309	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.0702	100.2876	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.0702	100.2876	System Intact
FDNS	06ALL	0	18G	ASGI_16_09	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.06947	113.3	System Intact
FDNS	06ALL	0	18G	ASGI_16_09	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.06947	113.3	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.04937	143.02	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.04937	143.02	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.06796	109.3228	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.06796	109.3228	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.0635	125.0648	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.0635	125.0648	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05058	100	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05058	100	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.17039	104.4953	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.17039	104.4953	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.04749	103.1502	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.04749	103.1502	System Intact
FDNSLock-Blown up	06ALL	0	17WP	ASGI_16_09		Non-Converge	1793	1793	0.20791	26.44219	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	ASGI_16_09		Non-Converge	1022	1143	0.24431	59.59728	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	ASGI_16_09		Non-Converge	740.37	740.37	0.04395	101.981	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	ASGI_16_09		Non-Converge	0	0	0.40444	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	17WP	ASGI_16_09		Non-Converge	0	0	0.26693	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	17WP	ASGI_16_09		Non-Converge	0	0	0.39422	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	17WP	ASGI_16_09		Non-Converge	0	0	0.17809	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	18G	ASGI_16_09		Non-Converge	1793	1793	0.20185	31.21747	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	ASGI_16_09		Non-Converge	1022	1143	0.23804	68.00926	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	ASGI_16_09		Non-Converge	717.06	717.06	0.04115	111.6394	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	ASGI_16_09		Non-Converge	956.09	956.09	0.20817	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	ASGI_16_09		Non-Converge	956.09	956.09	0.20817	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	ASGI_16_09		Non-Converge	0	0	0.24902	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	18G	ASGI_16_09		Non-Converge	0	0	0.25951	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	18G	ASGI_16_09		Non-Converge	0	0	0.22778	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	18G	ASGI_16_09		Non-Converge	0	0	0.38039	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	18G	ASGI_16_09		Non-Converge	0	0	0.03192	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	18SP	ASGI_16_09		Non-Converge	1793	1793	0.20798	29.57274	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	ASGI_16_09		Non-Converge	956	1042	0.23697	61.96857	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	ASGI_16_09		Non-Converge	717.06	717.06	0.04421	104.1695	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	ASGI_16_09		Non-Converge	0	0	0.31305	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	18SP	ASGI_16_09		Non-Converge	0	0	0.26001	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	18SP	ASGI_16_09		Non-Converge	0	0	0.39536	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	18SP	ASGI_16_09		Non-Converge	0	0	0.07991	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	500.8	556.5	0.08904	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	500.8	556.5	0.08904	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	1793	1793	0.17613	42.62265	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	1793	1793	0.13783	29.83855	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	478	502	0.07685	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	478	502	0.07685	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	318.69	318.69	0.06703	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	318.69	318.69	0.06703	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	1195	1195	0.07162	32.97946	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	439	439	0.03169	59.82893	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	421	439	0.05968	111.2135	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	1793	1793	0.06628	22.60611	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	1022	1143	0.19726	85.48402	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	287	316	0.03169	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	287	316	0.03169	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	956.09	956.09	0.07939	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	956.09	956.09	0.07939	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	956.1	1051.7	0.07939	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	956.1	1051.7	0.07939	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	1793	1793	0.06628	23.6207	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	717	789	0.06866	46.87057	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	1195	1195	0.12474	36.51713	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	318.69	318.69	0.04937	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	318.69	318.69	0.04937	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	433	500	0.05058	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	433	500	0.05058	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	497.16	546.96	0.05336	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	497.16	546.96	0.05336	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	956.09	956.09	0.17039	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	956.09	956.09	0.17039	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	956.1	1051.7	0.09366	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	956.1	1051.7	0.09366	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	318.69	318.69	0.04749	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	318.69	318.69	0.04749	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	375.26	412.71	0.08091	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	375.26	412.71	0.08091	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.11936	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.18235	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.21422	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.10657	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.1323	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.07939	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.10634	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.17795	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.08898	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.12474	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.12474	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.12474	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.12474	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.12771	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.07939	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	0	0	0.32555	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	1195	1195	0.15517	48.61858	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	504	555	0.05968	96.02361	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	504	555	0.05968	95.71223	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	560	560	0.08268	57.18097	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	ASGI_16_09		Non-Converge	560	560	0.08268	57.18097	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	1793	1793	0.20831	37.78229	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	1793	1793	0.16365	28.82343	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	353	353	0.08233	86.61529	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	956	1042	0.23639	76.05145	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	717.06	717.06	0.03401	103.8842	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	318.69	389	0.0702	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	318.69	389	0.0702	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	318.69	318.69	0.06796	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	318.69	318.69	0.06796	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	433	500	0.06975	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	433	500	0.06975	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	956.09	956.09	0.21474	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	956.09	956.09	0.21474	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	318.69	318.69	0.06109	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	318.69	318.69	0.06109	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	0	0	0.16467	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	0	0	0.23464	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	0	0	0.25958	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	0	0	0.10331	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	0	0	0.1378	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	0	0	0.22898	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	0	0	0.17735	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	0	0	0.10331	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	0	0	0.38731	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	0	0	0.03056	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	1195	1195	0.17257	56.72121	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	504	555	0.08233	48.59974	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	ASGI_16_09		Non-Converge	504	555	0.08233	48.27787	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	500.8	556.5	0.08952	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	500.8	556.5	0.08952	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1793	1793	0.1997	41.74516	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1793	1793	0.15688	29.26695	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1793	1793	0.1997	41.74516	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	557	557	0.07861	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	557	557	0.07861	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	318.69	318.69	0.06961	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	318.69	318.69	0.06961	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	557	557	0.07861	46.1797	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1195	1195	0.08689	33.5474	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1792	1792	0.10826	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1792	1792	0.10826	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1792	1792	0.10826	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1792	1792	0.10826	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	439	439	0.03949	63.4582	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	421	439	0.07708	101.7193	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1793	1793	0.08041	21.23961	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	956	956	0.1337	62.35377	'CIMARRON - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1022	1143	0.22627	81.02731	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	740.37	740.37	0.03098	101.2309	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	329.05	389	0.06797	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	329.05	389	0.06797	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	329.05	389	0.06797	77.71954	'DEAF SMITH COUNTY INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	956.09	956.09	0.09796	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	956.09	956.09	0.09796	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	987.2	1082.8	0.09796	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	987.2	1082.8	0.09796	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1793	1793	0.08041	23.59854	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	717	789	0.07248	40.22197	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1195	1195	0.1337	41.01586	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	345.78	345.78	0.0635	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	345.78	345.78	0.0635	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	500	556	0.06528	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	500	556	0.06528	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	552.14	607.51	0.06657	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	552.14	607.51	0.06657	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1036.76	1036.76	0.20345	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1036.76	1036.76	0.20345	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	987.2	1082.8	0.11558	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	987.2	1082.8	0.11558	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	551.74	607.11	0.17362	25.11317	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	551.74	607.11	0.17362	25.11317	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1195	1195	0.11683	50.44144	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	329.05	329.05	0.05767	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	329.05	329.05	0.05767	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	449.76	494.77	0.08325	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	449.76	494.77	0.08325	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.03555	9999	''P12:115:SPS:T06.1.SPRMN.PRNGLE''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.04076	9999	''P12:230:SPS:K45.2.PLANTX.TOLK''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.15415	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.03138	9999	''P12:345:SPS:J01.1.TUCO.OKU(520)''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.30554	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.09473	9999	'P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.24851	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.12815	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.16236	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.09796	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.12964	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.21653	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.10826	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.10826	9999	''P42:345:OKGE:SB_BVTY7385''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.1337	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.1337	9999	''P42:345:OKGE:SB_MICO7301''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.1337	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.1337	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.1337	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.17016	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.09796	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.36948	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	0	0	0.10819	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1195	1195	0.16603	54.77373	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	559	559	0.03742	40.01927	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	559	559	0.03742	40.01927	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	560.9	617	0.07708	66.37998	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	560.9	617	0.07708	66.11691	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1195	1195	0.11683	57.37275	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	560	560	0.0812	78.41681	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	560	560	0.0812	78.41681	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1792	1792	0.05491	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	1792	1792	0.05491	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	619	699	0.21246	70.22913	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	619	699	0.21246	70.22913	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	615	699	0.21246	70.6859	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	ASGI_16_09		Non-Converge	615	699	0.21246	70.6859	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNSLock-Blown up	06ALL	0	26SP	ASGI_16_09		Non-Converge	717.06	717.06	0.0353	85.52613	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	ASGI_16_09		Non-Converge	0	0	0.33839	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	26SP	ASGI_16_09		Non-Converge	0	0	0.13129	9999	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	18G	ASGI_16_09	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.27331	103.6849	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.22077	101.9113	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.25696	105.8431	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.25696	111.1664	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	ASGI_16_09	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24513	114.9962	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	ASGI_16_09	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24513	120.3499	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	1022	1143	0.4436	105.4072	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	956	1042	0.51137	105.5371	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04622	100.4228	System Intact
FDNS	06ALL	2	21SP	ASGI_16_09	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04622	100.4228	System Intact
FDNS	06ALL	2	21SP	ASGI_16_09	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04622	100.11	System Intact
FDNS	06ALL	2	21SP	ASGI_16_09	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04622	100.11	System Intact
FDNS	06ALL	2	21WP	ASGI_16_09	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04381	102.1528	System Intact
FDNS	06ALL	2	21WP	ASGI_16_09	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04381	102.1528	System Intact
FDNS	06ALL	2	21WP	ASGI_16_09	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04381	101.3538	System Intact
FDNS	06ALL	2	21WP	ASGI_16_09	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04381	101.3538	System Intact
FDNSLock-Blown up	06ALL	2	21L	ASGI_16_09		Non-Converge	0	0	0.16518	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21L	ASGI_16_09		Non-Converge	0	0	0.34122	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21SP	ASGI_16_09		Non-Converge	0	0	0.41246	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	ASGI_16_09		Non-Converge	0	0	0.19235	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21WP	ASGI_16_09		Non-Converge	0	0	0.39462	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	ASGI_16_09		Non-Converge	0	0	0.11622	9999	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	21L	ASGI_16_09	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	644	0.35652	119.0772	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	ASGI_16_09	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	644	0.35652	119.0772	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	ASGI_16_09	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	644	0.35652	112.9648	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	ASGI_16_09	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	644	0.35652	112.9648	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21WP	ASGI_16_09	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	619	699	0.38096	100.4308	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21WP	ASGI_16_09	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	619	699	0.38096	100.4308	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	ASGI_16_09	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	559	643	0.35652	118.1293	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	559	643	0.35652	118.1293	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	559	643	0.35652	113.1779	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	559	643	0.35652	113.1779	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21WP	ASGI_16_09	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	615	699	0.38096	100.4308	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21WP	ASGI_16_09	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	615	699	0.38096	100.4308	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.06012	111.2135	System Intact
FDNS	06ALL	0	21L	G15_099	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.06012	111.2135	System Intact
FDNS	06ALL	0	21WP	G15_099	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.07751	101.7193	System Intact
FDNS	06ALL	0	21WP	G15_099	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.07751	101.7193	System Intact
FDNS	06ALL	0	21L	G15_099	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	1022	1143	0.32787	110.1676	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	956	1042	0.39453	107.2823	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28928	102.8099	'ALLRED TAP - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.31929	101.2505	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.31929	101.2505	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.31929	104.3799	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.31929	104.3799	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27881	101.4313	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27881	101.4313	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.981	System Intact
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.981	System Intact
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28537	102.7685	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28537	102.8626	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27771	101.5409	'BOPCO_PKRLK3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28131	102.9226	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28131	102.9226	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27996	102.6433	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27996	102.6433	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27255	102.4568	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27255	102.4568	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28126	102.9786	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28126	102.7005	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23612	100.8798	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23612	100.8798	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27582	101.5113	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27582	101.5113	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27972	102.5282	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27972	102.5282	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.26302	103.5387	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.26302	103.5387	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27696	102.4099	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27696	102.4099	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.35329	107.0597	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.35329	109.3351	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28814	102.5006	'GAINES COUNTY INTERCHANGE - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.2478	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	100.9446	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.3118	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.3135	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.284	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.2879	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.2868	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.2512	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.3922	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	100.4914	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.2247	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.1895	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.1572	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.4138	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.0039	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.5348	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.5205	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.5212	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	100.9767	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	101.4009	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	100.8913	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	100.5492	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	100.9044	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	100.8292	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	100.4801	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	100	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.2752	102.069	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.2752	102.069	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28473	102.4174	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28473	102.4174	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28814	102.6086	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.29516	103.4221	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.29516	103.4221	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28928	103.0002	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28126	101.5344	'LEA COUNTY REC-PLAINS INTERCHANGE - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28126	101.4443	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28126	101.5267	'LEHMAN_TP 3115.00 - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28473	103.1803	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28284	101.2118	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28284	101.2118	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27719	101.2051	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27719	101.3791	'National Enrichment Plant Tap - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.31053	104.194	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.31053	100.1936	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27999	102.7269	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27999	102.7269	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28313	102.8052	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.29974	103.7196	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27883	104.5513	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28109	105.4312	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27829	102.7086	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27969	102.485	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.2777	103.4103	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27652	102.4345	''P12:115:SPS:T64.1.RNDALL.PULLMN''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27616	103.2625	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.29165	102.9509	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27844	103.6066	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28537	103.1082	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28024	103.0784	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28126	102.7703	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28928	102.8808	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27872	102.7308	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27843	102.4865	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	103.1167	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	103.4895	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27636	102.6609	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	102.7061	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28814	102.7784	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27815	102.4973	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27771	103.4638	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	103.6478	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27822	102.8807	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28348	102.8872	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	103.6598	''P44:69:SPS:BOARDMAN_8845''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	102.9449	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	102.9041	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27816	104.6487	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	103.7386	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28103	102.902	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.2805	102.7757	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28126	102.6275	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.26306	102.8059	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.26306	102.8059	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28863	100.832	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28863	100.832	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	102.4032	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27817	102.4032	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27771	101.1204	'RED_BLUFF 3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28106	101.4281	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.29237	102.7228	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.29237	102.7228	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.29797	108.5021	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.29797	108.5021	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28125	103.2262	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28125	103.2262	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28125	103.2262	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	17WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28125	103.2262	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2865	112.4752	'ALLRED TAP - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27655	112.3072	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27655	112.3072	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31578	112.2866	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31578	112.2866	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31578	115.3177	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31578	115.3177	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27599	111.1178	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27599	111.1178	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	111.6394	System Intact
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	111.6394	System Intact
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28258	112.5203	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28258	112.6057	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2749	111.1136	'BOPCO_PKRLK3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27836	112.5796	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27836	112.5796	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27708	112.2791	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27708	112.2791	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30241	108.7016	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30241	108.7016	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNSLock	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33353	110.4685	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33353	110.4685	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27581	113.6932	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2784	112.8476	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2784	112.413	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2592	105.9041	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2101	103.4998	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2613	108.3034	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2613	108.3034	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23372	109.8043	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23372	109.8043	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26819	109.1462	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26819	109.1462	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27302	111.1375	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27302	111.1375	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27668	112.309	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27692	112.2214	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27692	112.2214	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27668	112.236	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27668	112.1346	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28158	112.1404	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28158	112.1404	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26035	113.0021	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26035	113.0021	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.35077	117.4065	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.35077	119.8216	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28536	112.1532	'GAINES COUNTY INTERCHANGE - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.6838	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.2342	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.8163	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.8171	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.7842	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.8316	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.8304	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.7428	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.9151	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.5053	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.742	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.6276	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.5947	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	108.8926	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	108.8928	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	108.6288	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	109.862	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.3868	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	108.0012	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	108.0047	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	105.6402	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	107.925	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	105.6446	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	105.6446	'GEN527902 1-HOBBS PLANT #2 (CT)'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	102.7795	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	111.0278	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.5726	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	108.6489	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	111.1577	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	111.1421	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	111.1423	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.537	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	111.0063	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.7158	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.2811	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.0849	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	108.8593	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.3427	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	107.2129	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.2083	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	100.6541	'GEN587423 1-G16-062-GEN10.6900'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	110.0109	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	108.7119	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	105.7536	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	102.7538	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	109.4338	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27561	112.779	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27561	112.779	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28887	112.2625	'Higg Switch Station - XTO_RUSSEL 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28193	112.2546	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28193	112.2546	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28536	112.2871	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2924	113.2574	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2924	113.2574	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2865	112.8116	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28193	113.0511	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28006	110.8673	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28006	110.8673	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27439	110.8389	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27439	111.0185	'National Enrichment Plant Tap - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3071	115.47	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27715	112.5024	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27715	112.5024	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28028	112.7766	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33353	123.214	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33353	123.214	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29659	113.9609	"P11:115:533:PRATT_P2:1:539687(P2)"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27602	114.0975	"P12:115:SPS:T19.1.TERRY.SULPHUR"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27828	115.3965	"P12:115:SPS:T20.1.SEGRVS.SULPHUR"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27547	112.1264	"P12:115:SPS:T24B.1.RSWLL.BRSHRF"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27686	112.1746	"P12:115:SPS:T37.1.SUNSET.PUCKT"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27489	113.1564	"P12:115:SPS:T42.1.WHOBBS.MADDOX"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27668	112.2806	"P12:115:SPS:T61.1.EDDY_S.PECOS"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27336	112.7604	"P12:115:SPS:T86.1.AMASTH.SPGDRW"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28887	112.8515	"P12:115:SPS:T93.1.HUTCH.MARTIN"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27563	112.8608	"P12:115:SPS:T99.1.LEA_NA.HOBBG"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28258	112.8106	"P12:115:SPS:U02.1.PORTA.GREYHND"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2774	112.8544	"P12:115:SPS:V51.1.HERFRD.DFSMTH"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2784	112.5003	"P12:115:SPS:V61.1.PCA.CRLBAD"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2865	112.625	"P12:115:SPS:V90.1.CUNN.MADDOX"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27591	112.4137	"P12:115:SPS:W01.1.CARSON.MARTIN"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27562	112.2443	"P12:115:SPS:W13.1.SMINLE.ROZ"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	112.8444	"P12:115:SPS:W24.1.MOOREE.LASLEY"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	113.2377	"P12:115:SPS:W25.1.PECOS.OCOTILLO"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27357	112.1805	"P12:115:SPS:W28.1.OCLTRE.COLE"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	112.4032	"P12:115:SPS:W36.1.TAYLOR.JNSDRW"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28536	112.4839	"P12:115:SPS:W38.1.RDBLUFF.WIPP"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27534	112.207	"P12:115:SPS:W40.1.WCANYON.DFSMTH"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2749	113.457	"P12:115:SPS:W41.2.HERFRD.DFSMTH"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	113.2799	"P12:115:SPS:W76.1.QUAHA.PCA"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27541	112.4297	"P12:230:SPS:4K60.1.RSVLT_S.HVDC"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28062	112.9319	"P12:230:SPS:K53.1.NICHLS.GRAPE"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27581	112.705	"P12:230:SPS:K76.1.HITCH.OCLTRE"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	106.7474	"P42:345:SPS:POTTER-2R05"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	113.6369	"P44:69:SPS:BOARDMAN_8845"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	112.592	"P44:69:SPS:CARLISLE_6885"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	112.1917	"P44:69:SPS:COUNTYLINE_8770"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	112.6556	"P44:69:SPS:FLOYD_CNTY_9731"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27535	114.4127	"P44:69:SPS:RIVERVIEW_R708"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	113.4765	"P44:69:SPS:SPEARMAN_1740_1755"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27817	112.9644	"P44:69:SPS:SULPHUR_6F25"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27765	112.7555	"P44:69:SPS:TERRY_CNTY_6700"
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2784	112.3066	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26639	111.1093	'PCA INTERCHANGE - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26639	111.1093	'PCA INTERCHANGE - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26039	112.2827	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26039	112.2827	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2856	111.1851	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2856	111.1851	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26066	107.6327	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2759	112.8542	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2759	112.8542	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2749	110.6352	'RED_BLUFF 3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2771	112.1678	'ROOSEVELT COUNTY INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT @1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27821	112.223	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27821	112.223	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27831	112.2324	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27831	112.2324	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27823	111.0794	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27765	112.0992	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27765	112.0992	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27581	112.7035	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27581	112.7117	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28937	112.2643	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28937	112.2643	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29437	116.0929	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29437	116.0929	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27383	112.9277	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28417	110.9867	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27832	113.0276	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27832	113.0276	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27832	113.0561	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27832	113.0561	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28332	104.8866	'ALLRED TAP - INK_BASIN 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32082	104.6988	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32082	104.6988	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32082	108.1119	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32082	108.1119	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28152	103.7163	'AMOCO TAP - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2792	103.6044	'ANDREWS 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2792	103.6044	'ANDREWS 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	104.1695	System Intact
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	104.1695	System Intact
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28652	104.9642	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28652	105.0773	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28229	105.057	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28229	105.057	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30649	101.7154	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30649	101.7154	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28236	105.4184	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28236	104.8142	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24137	103.2006	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24137	103.2006	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27366	102.9078	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27366	102.9078	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28057	104.8751	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28084	105.0613	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28084	105.0613	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28057	104.7623	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28057	104.7145	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28543	104.8437	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28543	104.8437	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26349	105.5947	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26349	105.5947	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27785	104.7003	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27785	104.7003	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27801	104.6391	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27801	104.6391	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34254	108.1244	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34254	110.2514	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.3891	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.013	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.4664	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.4681	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.4371	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.4416	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.4405	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.4026	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.551	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	102.6321	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	102.2141	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	102.8039	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.281	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	101.5635	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	101.5636	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	101.3196	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	102.4335	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	102.3833	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	100.1176	'GEN527166 1-MUSTANG_6 118.000'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	100.6712	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	100.675	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	102.8426	'GEN527881 1-CUNNINGHAM GEN #1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.6403	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.1314	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	101.2106	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.71	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.7025	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.7032	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.0888	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.5532	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.4966	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	102.9989	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	102.6806	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	101.516	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	103.0204	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	102.9237	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	102.6087	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	101.3004	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	102.0071	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27624	104.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27624	104.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27795	102.3437	'HOBBS - KIOWA 7345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27795	102.3437	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27795	102.315	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2823	103.709	'HOCKLEY COUNTY INTERCHANGE - LAMB COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2823	103.709	'HOCKLEY COUNTY INTERCHANGE - LAMB COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33703	107.1569	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2892	104.6295	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29627	105.5504	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29627	105.5504	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28243	103.7373	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28243	103.7373	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27854	103.6341	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27854	103.6341	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27973	103.5833	'LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27973	103.584	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27973	103.584	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28926	104.7866	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2856	105.2626	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28375	103.0463	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28375	103.0463	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31203	106.9414	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31203	102.7133	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28094	104.7101	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28094	104.7101	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28107	104.942	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28107	104.942	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28421	104.8751	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30053	107.3037	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27992	107.2614	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28216	108.43	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27937	104.845	''P12:115:SPS:T24B.1.RSWLL.BRSHRF''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27937	104.7243	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2808	104.842	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27874	105.6212	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27903	104.6166	''P12:115:SPS:T45.1.NORRIS.OASIS''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28057	104.8153	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27743	105.5524	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27875	104.6299	''P12:115:SPS:T87.1.SPRMN.HANSFRD''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2928	105.0656	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27953	105.8133	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28652	105.3782	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28117	105.5392	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28236	104.9242	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27722	104.6615	''P12:115:SPS:V93.1.PNTX_N.PNTX_S''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27985	104.6152	''P12:115:SPS:V99.1.PLAINS.YOAKUM''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27984	105.0215	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27954	104.7794	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	105.4717	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	105.8946	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27831	104.8822	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	104.9456	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2892	104.8336	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27923	104.7919	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27923	106.1301	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	105.9328	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2793	105.2395	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27973	103.5836	''P12:230:SPS:K39.1.CRLSLE.MLWAKEE''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28456	104.963	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	106.4996	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	105.3334	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	104.8984	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	105.3926	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	104.6314	''P44:69:SPS:GRAY_CNTY_2830''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27925	107.068	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	106.3264	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28207	105.8596	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28158	105.5033	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28236	104.6841	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26408	104.7487	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26408	104.7487	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28985	103.0526	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28985	103.0526	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	104.6501	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27926	104.6501	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28212	103.7053	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28158	104.7118	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28158	104.7118	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29356	105.0825	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29356	105.0825	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2985	110.5568	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2985	110.5568	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28771	105.6194	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2823	104.8937	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2823	104.8937	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2823	104.8937	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2823	104.8937	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28217	104.7291	'WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28217	104.7291	'WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.16645	121.6564	System Intact
FDNS	06ALL	0	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.16645	121.6564	System Intact
FDNS	06ALL	0	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19978	105.9326	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19978	105.9326	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.18276	103.8842	System Intact
FDNS	06ALL	0	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.18276	103.8842	System Intact
FDNS	06ALL	0	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20007	105.3359	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20007	106.3391	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24032	106.8647	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24032	106.8647	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2007	104.9925	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24903	109.6921	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24903	109.6921	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.17973	101.2309	System Intact
FDNS	06ALL	0	21WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.17973	101.2309	System Intact
FDNSLock	06ALL	0	21WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.21137	108.0622	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.21137	108.0622	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.07673	100.2876	System Intact
FDNS	06ALL	0	21SP	G15_099	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.07673	100.2876	System Intact
FDNS	06ALL	0	18G	G15_099	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07443	113.3	System Intact
FDNS	06ALL	0	18G	G15_099	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07443	113.3	System Intact
FDNS	06ALL	0	21L	G15_099	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.04973	143.02	System Intact
FDNS	06ALL	0	21L	G15_099	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.04973	143.02	System Intact
FDNS	06ALL	0	21SP	G15_099	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.06832	109.3228	System Intact
FDNS	06ALL	0	21SP	G15_099	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.06832	109.3228	System Intact
FDNS	06ALL	0	21WP	G15_099	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.06386	125.0648	System Intact
FDNS	06ALL	0	21WP	G15_099	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.06386	125.0648	System Intact
FDNS	06ALL	0	21L	G15_099	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05095	100	System Intact
FDNS	06ALL	0	21L	G15_099	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05095	100	System Intact
FDNS	06ALL	0	21L	G15_099	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.17884	104.4953	System Intact
FDNS	06ALL	0	21L	G15_099	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.17884	104.4953	System Intact
FDNS	06ALL	0	21L	G15_099	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.04769	103.1502	System Intact
FDNS	06ALL	0	21L	G15_099	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.04769	103.1502	System Intact
FDNSLock-Blown up	06ALL	0	17WP	G15_099		Non-Converge	1793	1793	0.19173	26.44219	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G15_099		Non-Converge	1022	1143	0.2295	59.59728	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G15_099		Non-Converge	740.37	740.37	0.27817	101.981	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G15_099		Non-Converge	318.69	318.69	0.1099	44.80788	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G15_099		Non-Converge	318.69	318.69	0.1099	44.80788	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G15_099		Non-Converge	0	0	0.86322	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	17WP	G15_099		Non-Converge	0	0	0.2502	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNSLock-Blown up	06ALL	0	17WP	G15_099		Non-Converge	0	0	0.45496	9999	"P42:345:SPS:TUCO-1XXX"
FDNSLock-Blown up	06ALL	0	17WP	G15_099		Non-Converge	0	0	0.61078	9999	"P44:69:SPS:BAILYCO_8860"
FDNSLock-Blown up	06ALL	0	18G	G15_099		Non-Converge	1793	1793	0.18565	31.21747	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G15_099		Non-Converge	1022	1143	0.22321	68.00926	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G15_099		Non-Converge	717.06	717.06	0.27536	111.6394	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G15_099		Non-Converge	956.09	956.09	0.22733	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G15_099		Non-Converge	956.09	956.09	0.22733	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G15_099		Non-Converge	0	0	0.49295	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	18G	G15_099		Non-Converge	0	0	0.24275	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNSLock-Blown up	06ALL	0	18G	G15_099		Non-Converge	0	0	0.24725	9999	"P42:345:OKGE:SB_BVTY7315"
FDNSLock-Blown up	06ALL	0	18G	G15_099		Non-Converge	0	0	0.44106	9999	"P42:345:SPS:TUCO-1XXX"
FDNSLock-Blown up	06ALL	0	18G	G15_099		Non-Converge	0	0	0.24994	9999	"P44:69:SPS:BAILYCO_8860"
FDNSLock-Blown up	06ALL	0	18SP	G15_099		Non-Converge	1793	1793	0.19181	29.57274	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G15_099		Non-Converge	956	1042	0.22196	61.96857	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G15_099		Non-Converge	717.06	717.06	0.27926	104.1695	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G15_099		Non-Converge	318.69	318.69	0.11075	44.02533	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G15_099		Non-Converge	318.69	318.69	0.11075	44.02533	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G15_099		Non-Converge	0	0	0.18084	9999	"P12:115:SPS:V90.1.CUNN.MADDOX"
FDNSLock-Blown up	06ALL	0	18SP	G15_099		Non-Converge	0	0	0.99405	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	18SP	G15_099		Non-Converge	0	0	0.24307	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNSLock-Blown up	06ALL	0	18SP	G15_099		Non-Converge	0	0	0.45637	9999	"P42:345:SPS:TUCO-1XXX"
FDNSLock-Blown up	06ALL	0	18SP	G15_099		Non-Converge	0	0	0.65777	9999	"P44:69:SPS:BAILYCO_8860"
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	500.8	556.5	0.07296	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	500.8	556.5	0.07296	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	1793	1793	0.172	42.62265	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	1793	1793	0.13442	29.83855	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	478	502	0.08283	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	478	502	0.08283	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	318.69	318.69	0.07079	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	318.69	318.69	0.07079	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	1195	1195	0.07276	32.97946	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	478.04	478.04	0.06679	11.44848	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	478.04	478.04	0.06679	11.44848	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	439	439	0.03153	59.82893	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	421	439	0.06012	111.2135	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	1793	1793	0.06618	22.60611	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	1022	1143	0.19347	85.48402	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	717.06	717.06	0.16645	121.6564	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	287	316	0.03153	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	287	316	0.03153	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	956.09	956.09	0.08064	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	956.09	956.09	0.08064	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	956.1	1051.7	0.08064	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	956.1	1051.7	0.08064	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	1793	1793	0.06618	23.6207	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	717	789	0.06678	46.87057	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	1195	1195	0.12288	36.51713	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	318.69	318.69	0.04973	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	318.69	318.69	0.04973	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	433	500	0.05095	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	433	500	0.05095	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	497.16	546.96	0.05309	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	497.16	546.96	0.05309	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	956.09	956.09	0.17884	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	956.09	956.09	0.17884	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	956.1	1051.7	0.09515	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	956.1	1051.7	0.09515	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	1792	1792	0.27847	13.85183	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	1792	1792	0.27847	13.85183	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	318.69	318.69	0.04769	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	318.69	318.69	0.04769	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	375.26	412.71	0.07257	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	375.26	412.71	0.07257	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	318.69	318.69	0.06679	60.71251	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	318.69	318.69	0.06679	60.71251	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.12023	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.57278	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.20997	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.10864	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.13404	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.08064	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.11114	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.1839	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.09195	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.12288	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.12288	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.12288	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.12288	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.12414	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.08064	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.36415	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	0	0	0.45526	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	1195	1195	0.18531	48.61858	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	504	555	0.06012	96.02361	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	504	555	0.06012	95.71223	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	560	560	0.05464	57.18097	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	560	560	0.05464	57.18097	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	1792	1792	0.28074	17.74159	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G15_099		Non-Converge	1792	1792	0.28074	17.74159	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	1793	1793	0.20418	37.78229	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	1793	1793	0.16024	28.82343	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	353	353	0.08277	86.61529	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	956	1042	0.23259	76.05145	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	717.06	717.06	0.18276	103.8842	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	318.69	389	0.07673	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	318.69	389	0.07673	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	318.69	318.69	0.06832	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	318.69	318.69	0.06832	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	433	500	0.07012	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	433	500	0.07012	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	956.09	956.09	0.22319	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	956.09	956.09	0.22319	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	318.69	318.69	0.06129	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	318.69	318.69	0.06129	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	318.69	318.69	0.07316	42.68379	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	318.69	318.69	0.07316	42.68379	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	0	0	0.14632	9999	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	0	0	0.16553	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	0	0	0.62508	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	0	0	0.25533	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	0	0	0.10457	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	0	0	0.1426	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	0	0	0.23493	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	0	0	0.17409	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	0	0	0.10457	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	0	0	0.42591	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	0	0	0.43047	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	1195	1195	0.20272	56.72121	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	504	555	0.08277	48.59974	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G15_099		Non-Converge	504	555	0.08277	48.27787	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	500.8	556.5	0.07344	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	500.8	556.5	0.07344	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1793	1793	0.19558	41.74516	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1793	1793	0.15347	29.26695	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1793	1793	0.19558	41.74516	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	557	557	0.0846	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	557	557	0.0846	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	318.69	318.69	0.07338	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	318.69	318.69	0.07338	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	557	557	0.0846	46.1797	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1195	1195	0.08803	33.5474	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1792	1792	0.11124	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1792	1792	0.11124	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1792	1792	0.11124	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1792	1792	0.11124	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	439	439	0.03932	63.4582	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	421	439	0.07751	101.7193	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1793	1793	0.0803	21.23961	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	956	956	0.13183	62.35377	'CIMARRON - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1022	1143	0.22247	81.02731	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1195	1195	0.03671	38.97808	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	740.37	740.37	0.17973	101.2309	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	329.05	389	0.0745	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	329.05	389	0.0745	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	329.05	389	0.0745	77.71954	'DEAF SMITH COUNTY INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	956.09	956.09	0.09922	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	956.09	956.09	0.09922	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	987.2	1082.8	0.09922	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	987.2	1082.8	0.09922	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1793	1793	0.0803	23.59854	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	717	789	0.0706	40.22197	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1195	1195	0.13183	41.01586	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	345.78	345.78	0.06386	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	345.78	345.78	0.06386	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	500	556	0.06565	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	500	556	0.06565	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	552.14	607.51	0.06631	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	552.14	607.51	0.06631	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1036.76	1036.76	0.2119	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1036.76	1036.76	0.2119	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	987.2	1082.8	0.11707	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	987.2	1082.8	0.11707	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1792	1792	0.2949	7.996662	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1792	1792	0.2949	7.996662	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	551.74	607.11	0.04079	25.11317	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	551.74	607.11	0.04079	25.11317	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1195	1195	0.11565	50.44144	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	329.05	329.05	0.05786	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	329.05	329.05	0.05786	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	449.76	494.77	0.07492	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	449.76	494.77	0.07492	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.07368	9999	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.05518	9999	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.4218	9999	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.04017	9999	''P12:230:SPS:K45.2.PLANTX.TOLK''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.15502	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.03163	9999	''P12:345:SPS:J01.1.TUCO.OKU(520)''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.51893	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.0924	9999	'P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.24427	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.13022	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.1641	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.09922	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.13444	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.22247	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.11124	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.11124	9999	''P42:345:OKGE:SB_BVTY7385''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.13183	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.13183	9999	''P42:345:OKGE:SB_MICO7301''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.13183	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.13183	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.13183	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.1669	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.09922	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.40807	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	0	0	0.381	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1195	1195	0.19617	54.77373	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	560.9	617	0.07751	66.37998	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	560.9	617	0.07751	66.11691	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1195	1195	0.11565	57.37275	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	560	560	0.05316	78.41681	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	560	560	0.05316	78.41681	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1792	1792	0.3062	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	1792	1792	0.3062	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	619	699	0.03757	70.22913	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	619	699	0.03757	70.22913	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	615	699	0.03757	70.6859	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G15_099		Non-Converge	615	699	0.03757	70.6859	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNSLock-Blown up	06ALL	0	26SP	G15_099		Non-Converge	717.06	717.06	0.18406	85.52613	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G15_099		Non-Converge	318.69	318.69	0.07359	29.08259	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G15_099		Non-Converge	318.69	318.69	0.07359	29.08259	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G15_099		Non-Converge	0	0	0.14661	9999	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNSLock-Blown up	06ALL	0	26SP	G15_099		Non-Converge	0	0	0.55178	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	26SP	G15_099		Non-Converge	0	0	0.35415	9999	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	18G	G15_099	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.27098	103.6849	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.21832	101.9113	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.25451	105.8431	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.25451	111.1664	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G15_099	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24268	114.9962	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G15_099	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24268	120.3499	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	1022	1143	0.32501	105.4072	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	956	1042	0.39276	105.5371	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24938	100.7726	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29712	104.78	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29712	104.78	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24525	100.7165	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	2	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.25612	104.8104	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.25612	104.8104	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22845	100.9209	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNSLock	06ALL	2	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22958	100.5421	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNS	06ALL	2	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22655	100	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	2	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23718	100.9171	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23718	100.9171	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30764	105.3737	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30764	105.3737	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20821	113.1293	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20821	113.1293	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22593	111.3793	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22593	111.3793	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22593	114.7997	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22593	114.7997	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20777	111.9642	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20777	111.9642	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	112.4329	System Intact
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	112.4329	System Intact
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21076	112.9157	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21076	112.9779	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21008	115.5922	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2082	113.4349	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20855	113.203	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20855	113.203	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2079	113.1495	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2079	113.1495	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20857	113.3275	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20857	113.3275	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21999	109.0963	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21999	109.0963	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	112.8746	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	112.8746	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2053	111.479	'CHISHOLM7 345.00 - GRAPEVINE 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20853	113.434	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20853	113.2687	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20912	114.606	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20937	115.4823	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	113.6696	'CROSSROADS 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	113.6696	'CROSSROADS 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19929	111.7685	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19929	111.7685	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20343	111.5946	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20343	111.5946	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20823	112.0003	'EDDY COUNTY INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2076	113.1276	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22493	114.9953	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22493	116.111	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.7777	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.2088	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.8415	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.842	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.817	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.8547	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.854	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.7888	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.9129	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.051	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	110.5695	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.211	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	108.9767	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	108.9768	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	110.182	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	109.7515	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	109.754	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	107.0473	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	106.1605	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	107.3054	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	107.3054	'GEN527902 1-HOBBS PLANT #2 (CT)'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	104.9543	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.9652	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.5181	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	109.8855	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.4931	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.8927	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.0001	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.3175	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.3035	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	109.818	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.5074	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	101.5238	'GEN562942 1-G15056_3 0.6900'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	108.6841	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	110.7535	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	103.0499	'GEN587423 1-G16-062-GEN10.6900'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	111.2495	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	109.9327	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	107.3785	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	104.4548	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	110.4932	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2053	111.4919	'GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2041	111.3902	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2041	111.3902	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20612	111.705	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20612	111.705	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27235	122.6407	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27235	122.6407	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20494	112.0443	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22535	115.0667	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21647	113.3492	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21647	113.3492	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20754	113.4791	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20754	113.4791	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21235	112.8979	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20853	111.9907	'LEA COUNTY REC-PLAINS INTERCHANGE - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20853	111.9407	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20853	111.9791	'LEHMAN_TP 3115.00 - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21036	113.1389	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20576	111.9133	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22365	116.7284	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2083	113.3087	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2083	113.3087	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20927	113.6061	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23395	121.6211	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23395	121.6211	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21697	113.8279	"P11:115:533:PRATT_P2:1:539687(P2)"
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20723	114.1673	"P12:115:SPS:T19.1.TERRY.SULPHUR"
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20879	115.8253	"P12:115:SPS:T20.1.SEGRVS.SULPHUR"

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20672	113.8008	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20516	113.3948	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21394	113.4224	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20696	113.385	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21076	113.206	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2078	113.7161	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20853	113.3121	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20718	113.0119	''P12:115:SPS:V99.1.PLAINS.YOAKUM''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20723	113.1362	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20696	113.1694	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	112.9823	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	113.1695	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	113.1802	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21242	112.976	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2067	114.3882	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	113.5185	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20944	113.686	''P12:230:SPS:KS3.1.NICHLS.GRAPE''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20774	112.9345	'P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20547	112.3686	''P42:345:OKGE:SB_BVTY7315''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2082	113.4487	''P42:345:OKGE:SB_WWHV7383''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	108.3996	''P42:345:SPS:POTTER-2R05''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	113.0204	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	113.0914	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2078	113.0162	''P44:69:SPS:HUTCHISON_1834''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20687	113.8135	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2069	113.0655	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20828	113.1472	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20805	113.2529	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20853	113.2351	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20781	115.5789	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20781	115.5789	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20827	113.3022	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20827	113.3022	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20831	113.3186	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20831	113.3186	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20823	111.9341	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21572	117.3366	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21572	117.3366	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21107	113.586	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2799	124.9038	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2799	124.9038	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20716	113.3265	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20716	113.3265	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20716	113.3519	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20716	113.3519	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2984	100.2464	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2984	100.2464	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.25778	101.3859	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.25778	101.3859	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23815	103.3332	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23815	103.3332	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30972	103.0236	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30972	103.0236	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23335	100.7436	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21WP	G15_099	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23335	100.7436	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G15_099	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04712	100.4228	System Intact
FDNS	06ALL	2	21SP	G15_099	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04712	100.4228	System Intact
FDNS	06ALL	2	21SP	G15_099	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04712	100.11	System Intact
FDNS	06ALL	2	21SP	G15_099	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04712	100.11	System Intact
FDNS	06ALL	2	21WP	G15_099	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04471	102.1528	System Intact
FDNS	06ALL	2	21WP	G15_099	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04471	102.1528	System Intact
FDNS	06ALL	2	21WP	G15_099	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04471	101.3538	System Intact
FDNS	06ALL	2	21WP	G15_099	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04471	101.3538	System Intact
FDNSLock-Blown up	06ALL	2	21L	G15_099		Non-Converge	0	0	0.15987	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21L	G15_099		Non-Converge	0	0	0.39344	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21L	G15_099		Non-Converge	0	0	0.48293	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	2	21SP	G15_099		Non-Converge	0	0	0.14308	9999	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNSLock-Blown up	06ALL	2	21SP	G15_099		Non-Converge	0	0	0.46469	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	G15_099		Non-Converge	0	0	0.18704	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21WP	G15_099		Non-Converge	0	0	0.44684	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	G15_099		Non-Converge	0	0	0.40946	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	2	26SP	G15_099		Non-Converge	0	0	0.14336	9999	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNS	06ALL	0	21L	G16_121	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.0598	111.2135	System Intact
FDNS	06ALL	0	21L	G16_121	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.0598	111.2135	System Intact
FDNS	06ALL	0	21WP	G16_121	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.07719	101.7193	System Intact
FDNS	06ALL	0	21WP	G16_121	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.07719	101.7193	System Intact
FDNS	06ALL	0	21L	G16_121	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	1022	1143	0.32769	110.1676	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	956	1042	0.39431	107.2823	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34312	102.8099	'ALLRED TAP - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.37107	101.2505	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.37107	101.2505	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.37107	104.3799	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.37107	104.3799	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33686	101.4313	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33686	101.4313	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.981	System Intact
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.981	System Intact
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34035	102.7685	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34035	102.8626	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3319	101.5409	'BOPCO_PKRLK3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33809	102.9226	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33809	102.9226	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33675	102.6433	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33675	102.6433	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3296	102.4568	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3296	102.4568	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33761	102.9786	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33761	102.7005	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3135	100.8798	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3135	100.8798	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33711	101.5113	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33711	101.5113	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3365	102.5282	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3365	102.5282	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.30736	103.5387	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.30736	103.5387	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3327	102.4099	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3327	102.4099	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.41383	107.0597	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.41383	109.3351	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34173	102.5006	'GAINES COUNTY INTERCHANGE - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.2478	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	100.9446	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.3118	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.3135	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.284	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.2879	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.2868	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.2512	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.3922	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	100.4914	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.2247	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.1895	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.1572	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.4138	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.0039	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.5348	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.5205	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.5212	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	100.9767	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	101.4009	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	100.8913	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	100.5492	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	100.9044	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	100.8292	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	100.4801	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	100	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33199	102.069	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33199	102.069	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33969	102.4174	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33969	102.4174	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34173	102.6086	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34628	103.4221	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34628	103.4221	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34312	103.0002	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33761	101.5344	'LEA COUNTY REC-PLAINS INTERCHANGE - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33761	101.4443	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33761	101.5267	'LEHMAN_TP 3115.00 - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33969	103.1803	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33804	101.2118	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33804	101.2118	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34516	101.2051	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34516	101.3791	'National Enrichment Plant Tap - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3624	104.194	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3624	100.1936	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33676	102.7269	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33676	102.7269	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34126	102.8052	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.35291	103.7196	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.336	104.5513	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33602	105.4312	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33514	102.7086	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33634	102.485	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33059	103.4103	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33218	102.4345	''P12:115:SPS:T64.1.RNDALL.PULLMN''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33654	103.2625	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34449	102.9509	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33542	103.6066	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34035	103.1082	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33641	103.0784	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33761	102.7703	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34312	102.8808	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33544	102.7308	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33519	102.4865	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	103.1167	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	103.4895	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3419	102.6609	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	102.7061	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34173	102.7784	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33609	102.4973	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3319	103.4638	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	103.6478	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33505	102.8807	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34169	102.8872	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	103.6598	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	102.9449	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	102.9041	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33501	104.6487	''P44:69:SPS:RIVERVIEW_R708''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	103.7386	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33729	102.902	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33692	102.7757	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33761	102.6275	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.30721	102.8059	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.30721	102.8059	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34362	100.832	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34362	100.832	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	102.4032	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.33499	102.4032	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3319	101.1204	'RED_BLUFF 3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3389	101.4281	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34778	102.7228	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34778	102.7228	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34928	108.5021	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.34928	108.5021	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3378	103.2262	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3378	103.2262	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3378	103.2262	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	17WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.3378	103.2262	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34034	112.4752	'ALLRED TAP - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33333	112.3072	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33333	112.3072	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.36756	112.2866	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.36756	112.2866	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.36756	115.3177	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.36756	115.3177	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33404	111.1178	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33404	111.1178	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	111.6394	System Intact
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	111.6394	System Intact
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33756	112.5203	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33756	112.6057	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32909	111.1136	'BOPCO_PKRLK3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33514	112.5796	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33514	112.5796	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33387	112.2791	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33387	112.2791	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.36513	108.7016	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.36513	108.7016	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.4049	110.4685	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.4049	110.4685	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33262	113.6932	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33475	112.8476	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33475	112.413	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3139	105.9041	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.37062	103.4998	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.35333	108.3034	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.35333	108.3034	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3111	109.8043	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3111	109.8043	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.35606	109.1462	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.35606	109.1462	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33432	111.1375	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33432	111.1375	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3336	112.309	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33369	112.2214	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33369	112.2214	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3336	112.236	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3336	112.1346	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33715	112.1404	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33715	112.1404	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30468	113.0021	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30468	113.0021	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.41131	117.4065	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.41131	119.8216	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33895	112.1532	'GAINES COUNTY INTERCHANGE - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.6838	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.2342	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.8163	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.8171	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.7842	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.8316	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.8304	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.7428	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.9151	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.5053	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.742	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.6276	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.5947	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	108.8926	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	108.8928	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	108.6288	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	109.862	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.3868	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	108.0012	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	108.0047	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	105.6402	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	107.925	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	105.6446	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	105.6446	'GEN527902 1-HOBBS PLANT #2 (CT)'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	102.7795	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	111.0278	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.5726	'GEN528332 1-WILDCAT_WND134.500'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	108.6489	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	111.1577	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	111.1421	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	111.1423	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.537	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	111.0063	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.7158	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.2811	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.0849	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	108.8593	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.3427	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	107.2129	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.2083	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	100.6541	'GEN587423 1-G16-062-GEN10.6900'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	110.0109	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	108.7119	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	105.7536	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	102.7538	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	109.4338	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33242	112.779	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33242	112.779	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34172	112.2625	'Higg Switch Station - XTO_RUSSEL 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3369	112.2546	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3369	112.2546	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33895	112.2871	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34352	113.2574	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34352	113.2574	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34034	112.8116	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3369	113.0511	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33525	110.8673	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33525	110.8673	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34236	110.8389	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34236	111.0185	'National Enrichment Plant Tap - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.35896	115.47	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33392	112.5024	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33392	112.5024	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33841	112.7766	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.4049	123.214	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.4049	123.214	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34976	113.9609	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3332	114.0975	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33321	115.3965	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33233	112.1264	''P12:115:SPS:T24B.1.RSWLL.BRSHRF''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33351	112.1746	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32779	113.1564	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3336	112.2806	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33374	112.7604	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34172	112.8515	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33261	112.8608	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33756	112.8106	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33357	112.8544	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33475	112.5003	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34034	112.625	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33263	112.4137	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33238	112.2443	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	112.8444	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	113.2377	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3391	112.1805	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	112.4032	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33895	112.4839	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33328	112.207	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32909	113.457	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	113.2799	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33224	112.4297	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33883	112.9319	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33262	112.705	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	106.7474	''P42:345:SPS:POTTER-2R05''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	113.6369	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	112.592	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	112.1917	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	112.6556	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3322	114.4127	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33218	113.4765	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33443	112.9644	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33407	112.7555	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33475	112.3066	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33869	111.1093	'PCA INTERCHANGE - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33869	111.1093	'PCA INTERCHANGE - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30454	112.2827	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30454	112.2827	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3406	111.1851	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3406	111.1851	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31697	107.6327	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33249	112.8542	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33249	112.8542	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32909	110.6352	'RED_BLUFF 3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33436	112.1678	'ROOSEVELT COUNTY INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT @1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33589	112.223	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33589	112.223	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.336	112.2324	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.336	112.2324	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33607	111.0794	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33407	112.0992	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33407	112.0992	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33262	112.7035	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33262	112.7117	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34477	112.2643	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34477	112.2643	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34568	116.0929	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34568	116.0929	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33063	112.9277	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33961	110.9867	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33487	113.0276	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33487	113.0276	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33487	113.0561	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33487	113.0561	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31747	104.8866	'ALLRED TAP - INK_BASIN 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.35191	104.6988	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.35191	104.6988	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.35191	108.1119	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.35191	108.1119	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31525	103.7163	'AMOCO TAP - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31319	103.6044	'ANDREWS 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31319	103.6044	'ANDREWS 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	104.1695	System Intact
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	104.1695	System Intact
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31878	104.9642	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31878	105.0773	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3163	105.057	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3163	105.057	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34398	101.7154	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34398	101.7154	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31611	105.4184	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31611	104.8142	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28269	103.2006	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28269	103.2006	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3155	102.9078	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3155	102.9078	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31467	104.8751	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31485	105.0613	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31485	105.0613	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31467	104.7623	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31467	104.7145	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31864	104.8437	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31864	104.8437	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29243	105.5947	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29243	105.5947	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31112	104.7003	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31112	104.7003	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31137	104.6391	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31137	104.6391	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.39015	108.1244	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.39015	110.2514	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.3891	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.013	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.4664	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.4681	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.4371	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.4416	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.4405	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.4026	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.551	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	102.6321	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	102.2141	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	102.8039	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.281	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	101.5635	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	101.5636	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	101.3196	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	102.4335	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	102.3833	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	100.1176	'GEN527166 1-MUSTANG_6 118.000'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	100.6712	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	100.675	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	102.8426	'GEN527881 1-CUNNINGHAM GEN #1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.6403	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.1314	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	101.2106	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.71	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.7025	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.7032	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.0888	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.5532	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.4966	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	102.9989	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	102.6806	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	101.516	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	103.0204	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	102.9237	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	102.6087	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	101.3004	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	102.0071	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31026	104.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31026	104.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33276	102.3437	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33276	102.3437	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33276	102.315	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31599	103.709	'HOCKLEY COUNTY INTERCHANGE - LAMB COUNTY INTERCHANGE 115KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31599	103.709	'HOCKLEY COUNTY INTERCHANGE - LAMB COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.37525	107.1569	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32014	104.6295	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32464	105.5504	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32464	105.5504	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31622	103.7373	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31622	103.7373	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31317	103.6341	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31317	103.6341	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31367	103.5833	'LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31367	103.584	'LAMB COUNTY INTERCHANGE (WH_ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31367	103.584	'LAMB COUNTY INTERCHANGE (WH_ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32001	104.7866	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31749	105.2626	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31639	103.0463	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31639	103.0463	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34311	106.9414	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34311	102.7133	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31497	104.7101	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31497	104.7101	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31508	104.942	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31508	104.942	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31903	104.8751	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33225	107.3037	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31426	107.2614	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31432	108.43	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31343	104.845	''P12:115:SPS:T24B.1.RSWLL.BRSHRF''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31343	104.7243	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31475	104.842	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30967	105.6212	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31298	104.6166	''P12:115:SPS:T45.1.NORRIS.OASIS''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31467	104.8153	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31468	105.5524	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31685	104.6299	''P12:115:SPS:T87.1.SPRMN.HANSFRD''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32285	105.0656	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31378	105.8133	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31878	105.3782	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31477	105.5392	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31611	104.9242	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31412	104.6615	''P12:115:SPS:V93.1.PNTX_N.PNTX_S''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31375	104.6152	''P12:115:SPS:V99.1.PLAINS.YOAKUM''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31371	105.0215	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31349	104.7794	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	105.4717	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	105.8946	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31682	104.8822	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	104.9456	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32014	104.8336	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31188	104.7919	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31287	106.1301	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	105.9328	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31335	105.2395	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31367	103.5836	''P12:230:SPS:K39.1.CRLSLE.MLWAKEE''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31942	104.963	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	106.4996	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	105.3334	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	104.8984	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	105.3926	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	104.6314	''P44:69:SPS:GRAY_CNTY_2830''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3133	107.068	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	106.3264	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31575	105.8596	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31536	105.5033	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31611	104.6841	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29415	104.7487	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29415	104.7487	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32278	103.0526	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32278	103.0526	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	104.6501	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31329	104.6501	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31678	103.7053	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31536	104.7118	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31536	104.7118	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32676	105.0825	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32676	105.0825	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32923	110.5568	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32923	110.5568	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32093	105.6194	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31617	104.8937	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31617	104.8937	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31617	104.8937	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31617	104.8937	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31594	104.7291	'WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31594	104.7291	'WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.17961	121.6564	System Intact
FDNS	06ALL	0	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.17961	121.6564	System Intact
FDNS	06ALL	0	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23292	120.1952	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23292	120.1952	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21205	105.9326	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21205	105.9326	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19596	103.8842	System Intact
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19596	103.8842	System Intact
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21248	101.7551	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21248	101.7551	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19941	102.2519	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19941	102.2519	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21307	105.3359	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21307	106.3391	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24935	100.5038	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24935	100.5038	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27698	106.8647	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27698	106.8647	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21039	104.9925	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19993	104.6462	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19993	104.6462	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21056	105.7781	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21056	102.884	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2036	105.7898	"P11:115:533:PRATT_P2:1:539687(P2)"
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19908	104.4264	"P12:115:SPS:T93.1.HUTCH.MARTIN"
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19921	104.4754	"P12:230:SPS:K53.1.NICHLS.GRAPE"
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20187	103.1263	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20187	103.1263	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20485	114.4015	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20485	114.4015	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19965	105.6272	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26567	109.6921	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26567	109.6921	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.20881	100	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.20881	100	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.20881	102.555	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.20881	102.555	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.19293	101.2309	System Intact
FDNS	06ALL	0	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.19293	101.2309	System Intact
FDNSLock	06ALL	0	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.20982	102.6134	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.20982	103.7389	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.20708	102.6771	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.20737	102.431	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22764	108.0622	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22764	108.0622	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.07563	100.2876	System Intact
FDNS	06ALL	0	21SP	G16_121	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.07563	100.2876	System Intact
FDNS	06ALL	0	18G	G16_121	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07448	113.3	System Intact
FDNS	06ALL	0	18G	G16_121	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07448	113.3	System Intact
FDNS	06ALL	0	21L	G16_121	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.04947	143.02	System Intact
FDNS	06ALL	0	21L	G16_121	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.04947	143.02	System Intact
FDNS	06ALL	0	21SP	G16_121	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.06806	109.3228	System Intact
FDNS	06ALL	0	21SP	G16_121	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.06806	109.3228	System Intact
FDNS	06ALL	0	21WP	G16_121	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.0636	125.0648	System Intact
FDNS	06ALL	0	21WP	G16_121	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.0636	125.0648	System Intact
FDNS	06ALL	0	21L	G16_121	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05068	100	System Intact
FDNS	06ALL	0	21L	G16_121	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05068	100	System Intact
FDNS	06ALL	0	21L	G16_121	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.17881	104.4953	System Intact
FDNS	06ALL	0	21L	G16_121	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.17881	104.4953	System Intact
FDNS	06ALL	0	21L	G16_121	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.0475	103.1502	System Intact
FDNS	06ALL	0	21L	G16_121	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.0475	103.1502	System Intact
FDNSLock-Blown up	06ALL	0	17WP	G16_121		Non-Converge	1793	1793	0.19089	26.44219	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_121		Non-Converge	1022	1143	0.22875	59.59728	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_121		Non-Converge	740.37	740.37	0.33499	101.981	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_121		Non-Converge	318.69	318.69	0.13718	44.80788	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_121		Non-Converge	318.69	318.69	0.13718	44.80788	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_121		Non-Converge	0	0	0.89141	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	17WP	G16_121		Non-Converge	0	0	0.24936	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNSLock-Blown up	06ALL	0	17WP	G16_121		Non-Converge	0	0	0.46421	9999	"P42:345:SPS:TUCO-1XXX"
FDNSLock-Blown up	06ALL	0	17WP	G16_121		Non-Converge	0	0	0.63824	9999	"P44:69:SPS:BAILYCO_8860"
FDNSLock-Blown up	06ALL	0	18G	G16_121		Non-Converge	1793	1793	0.18482	31.21747	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_121		Non-Converge	1022	1143	0.22246	68.00926	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_121		Non-Converge	717.06	717.06	0.33218	111.6394	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_121		Non-Converge	956.09	956.09	0.2292	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_121		Non-Converge	956.09	956.09	0.2292	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_121		Non-Converge	0	0	0.57603	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	18G	G16_121		Non-Converge	0	0	0.24192	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNSLock-Blown up	06ALL	0	18G	G16_121		Non-Converge	0	0	0.24848	9999	"P42:345:OKGE:SB_BVTY7315"
FDNSLock-Blown up	06ALL	0	18G	G16_121		Non-Converge	0	0	0.45032	9999	"P42:345:SPS:TUCO-1XXX"
FDNSLock-Blown up	06ALL	0	18G	G16_121		Non-Converge	0	0	0.33229	9999	"P44:69:SPS:BAILYCO_8860"
FDNSLock-Blown up	06ALL	0	18SP	G16_121		Non-Converge	1793	1793	0.1913	29.57274	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_121		Non-Converge	956	1042	0.2215	61.96857	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_121		Non-Converge	717.06	717.06	0.31329	104.1695	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_121		Non-Converge	318.69	318.69	0.12716	44.02533	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_121		Non-Converge	318.69	318.69	0.12716	44.02533	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_121		Non-Converge	0	0	0.12066	9999	"P12:115:SPS:V90.1.CUNN.MADDOX"
FDNSLock-Blown up	06ALL	0	18SP	G16_121		Non-Converge	0	0	1.01261	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	18SP	G16_121		Non-Converge	0	0	0.24255	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNSLock-Blown up	06ALL	0	18SP	G16_121		Non-Converge	0	0	0.46194	9999	"P42:345:SPS:TUCO-1XXX"
FDNSLock-Blown up	06ALL	0	18SP	G16_121		Non-Converge	0	0	0.66226	9999	"P44:69:SPS:BAILYCO_8860"
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	500.8	556.5	0.07236	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	500.8	556.5	0.07236	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	1793	1793	0.17245	42.62265	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	1793	1793	0.13471	29.83855	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	478	502	0.08198	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	478	502	0.08198	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	318.69	318.69	0.07001	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	318.69	318.69	0.07001	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	1195	1195	0.07268	32.97946	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	478.04	478.04	0.07383	11.44848	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	478.04	478.04	0.07383	11.44848	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	439	439	0.03147	59.82893	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	421	439	0.0598	111.2135	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	1793	1793	0.06607	22.60611	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	1022	1143	0.19389	85.48402	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	717.06	717.06	0.17961	121.6564	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	287	316	0.03147	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	287	316	0.03147	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	956.09	956.09	0.08056	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	956.09	956.09	0.08056	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	956.1	1051.7	0.08056	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	956.1	1051.7	0.08056	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	1793	1793	0.06607	23.6207	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	717	789	0.067	46.87057	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	1195	1195	0.12298	36.51713	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	318.69	318.69	0.04947	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	318.69	318.69	0.04947	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	433	500	0.05068	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	433	500	0.05068	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	497.16	546.96	0.05285	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	497.16	546.96	0.05285	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	956.09	956.09	0.17881	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	956.09	956.09	0.17881	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	956.1	1051.7	0.09505	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	956.1	1051.7	0.09505	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	1792	1792	0.40087	13.85183	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	1792	1792	0.40087	13.85183	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	318.69	318.69	0.0475	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	318.69	318.69	0.0475	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	375.26	412.71	0.07175	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	375.26	412.71	0.07175	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	318.69	318.69	0.07383	60.71251	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	318.69	318.69	0.07383	60.71251	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.11959	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.56769	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.21045	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.1085	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.13392	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.08056	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.11081	9999	''P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.18349	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.09175	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.12298	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.12298	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.12298	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.12298	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.12444	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.08056	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.36591	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	0	0	0.45669	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	1195	1195	0.1871	48.61858	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	504	555	0.0598	96.02361	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	504	555	0.0598	95.71223	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	560	560	0.04432	57.18097	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	560	560	0.04432	57.18097	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	1792	1792	0.29703	17.74159	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_121		Non-Converge	1792	1792	0.29703	17.74159	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	1793	1793	0.20463	37.78229	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	1793	1793	0.16053	28.82343	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	353	353	0.08245	86.61529	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	956	1042	0.23301	76.05145	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	717.06	717.06	0.19596	103.8842	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	318.69	389	0.07563	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	318.69	389	0.07563	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	318.69	318.69	0.06806	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	318.69	318.69	0.06806	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	433	500	0.06985	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	433	500	0.06985	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	956.09	956.09	0.22317	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	956.09	956.09	0.22317	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	318.69	318.69	0.0611	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	318.69	318.69	0.0611	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	318.69	318.69	0.08019	42.68379	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	318.69	318.69	0.08019	42.68379	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	0	0	0.06839	9999	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	0	0	0.1649	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	0	0	0.62007	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	0	0	0.25581	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	0	0	0.10449	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	0	0	0.14227	9999	''P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	0	0	0.23452	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	0	0	0.17438	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	0	0	0.10449	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	0	0	0.42768	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	0	0	0.42618	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	1195	1195	0.20451	56.72121	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	504	555	0.08245	48.59974	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_121		Non-Converge	504	555	0.08245	48.27787	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	500.8	556.5	0.07284	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	500.8	556.5	0.07284	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1793	1793	0.19603	41.74516	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1793	1793	0.15376	29.26695	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1793	1793	0.19603	41.74516	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	557	557	0.08374	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	557	557	0.08374	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	318.69	318.69	0.0726	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	318.69	318.69	0.0726	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	557	557	0.08374	46.1797	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1195	1195	0.08796	33.5474	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1792	1792	0.11104	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1792	1792	0.11104	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1792	1792	0.11104	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1792	1792	0.11104	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	439	439	0.03927	63.4582	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	421	439	0.07719	101.7193	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1793	1793	0.08019	21.23961	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	956	956	0.13193	62.35377	'CIMARRON - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1022	1143	0.22289	81.02731	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1195	1195	0.0378	38.97808	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	740.37	740.37	0.19293	101.2309	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	329.05	389	0.07341	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	329.05	389	0.07341	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	329.05	389	0.07341	77.71954	'DEAF SMITH COUNTY INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	956.09	956.09	0.09913	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	956.09	956.09	0.09913	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	987.2	1082.8	0.09913	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	987.2	1082.8	0.09913	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1793	1793	0.08019	23.59854	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	717	789	0.07083	40.22197	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1195	1195	0.13193	41.01586	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	345.78	345.78	0.0636	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	345.78	345.78	0.0636	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	500	556	0.06538	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	500	556	0.06538	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	552.14	607.51	0.06607	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	552.14	607.51	0.06607	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1036.76	1036.76	0.21188	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1036.76	1036.76	0.21188	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	987.2	1082.8	0.11697	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	987.2	1082.8	0.11697	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1792	1792	0.417	7.996662	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1792	1792	0.417	7.996662	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	551.74	607.11	0.03523	25.11317	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	551.74	607.11	0.03523	25.11317	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1195	1195	0.11575	50.44144	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	329.05	329.05	0.05767	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	329.05	329.05	0.05767	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	449.76	494.77	0.0741	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	449.76	494.77	0.0741	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.06317	9999	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.07769	9999	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.09191	9999	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.04001	9999	''P12:230:SPS:K45.2.PLANTX.TOLK''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.15438	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.03153	9999	''P12:345:SPS:J01.1.TUCO.OKU(520)''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.51436	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.09268	9999	'P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.24475	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.13008	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.16398	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.09913	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.13411	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.22207	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.11104	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.11104	9999	''P42:345:OKGE:SB_BVTY7385''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.13193	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.13193	9999	''P42:345:OKGE:SB_MICO7301''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.13193	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.13193	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.13193	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.16719	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.09913	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.40985	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	0	0	0.38292	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1195	1195	0.19797	54.77373	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	560.9	617	0.07719	66.37998	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	560.9	617	0.07719	66.11691	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1195	1195	0.11575	57.37275	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	560	560	0.04283	78.41681	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	560	560	0.04283	78.41681	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1792	1792	0.32242	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_121		Non-Converge	1792	1792	0.32242	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_121		Non-Converge	717.06	717.06	0.19726	85.52613	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_121		Non-Converge	318.69	318.69	0.08062	29.08259	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_121		Non-Converge	318.69	318.69	0.08062	29.08259	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_121		Non-Converge	0	0	0.06868	9999	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNSLock-Blown up	06ALL	0	26SP	G16_121		Non-Converge	0	0	0.5472	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	26SP	G16_121		Non-Converge	0	0	0.3503	9999	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	18G	G16_121	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.27055	103.6849	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.21786	101.9113	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.25405	105.8431	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.25405	111.1664	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_121	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24222	114.9962	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_121	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24222	120.3499	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	1022	1143	0.30071	105.4072	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	956	1042	0.3685	105.5371	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30487	100.7726	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.37843	104.78	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.37843	104.78	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.30064	100.7165	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	2	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31971	104.8104	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.31971	104.8104	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28559	100.9209	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNSLock	06ALL	2	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2882	100.5421	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNS	06ALL	2	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28523	100	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	2	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28982	100.9171	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28982	100.9171	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.36441	105.3737	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.36441	105.3737	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26674	113.1293	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26674	113.1293	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28172	111.3793	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28172	111.3793	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28172	114.7997	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28172	114.7997	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2671	111.9642	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2671	111.9642	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	112.4329	System Intact
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	112.4329	System Intact
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26737	112.9157	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26737	112.9779	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26863	115.5922	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26676	113.4349	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26709	113.203	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26709	113.203	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26645	113.1495	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26645	113.1495	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26679	113.3275	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26679	113.3275	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28096	109.0963	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28096	109.0963	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	112.8746	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	112.8746	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26384	111.479	'CHISHOLM7 345.00 - GRAPEVINE 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26675	113.434	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26675	113.2687	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26768	114.606	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26793	115.4823	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.25035	103.1262	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	113.6696	'CROSSROADS 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	113.6696	'CROSSROADS 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27219	110.1567	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26623	111.7685	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26623	111.7685	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26895	111.5946	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26895	111.5946	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26705	112.0003	'EDDY COUNTY INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27167	111.7983	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27167	111.7983	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26616	113.1276	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28235	114.9953	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28235	116.111	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.7777	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.2088	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.8415	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.842	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.817	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.8547	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.854	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.7888	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.9129	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.051	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	110.5695	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.211	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	108.9767	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	108.9768	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	110.182	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	109.7515	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	109.754	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	107.0473	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	106.1605	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	107.3054	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	107.3054	'GEN527902 1-HOBBS PLANT #2 (CT)'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	104.9543	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.9652	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.5181	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	109.8855	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.4931	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.8927	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.0001	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.3175	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.3035	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	109.818	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.5074	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	101.5238	'GEN562942 1-G15056_3 0.6900'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	108.6841	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	110.7535	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	103.0499	'GEN587423 1-G16-062-GEN10.6900'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	111.2495	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	109.9327	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	107.3785	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	104.4548	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	110.4932	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26384	111.4919	'GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26264	111.3902	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26264	111.3902	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34414	111.705	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.34414	111.705	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.35373	122.6407	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.35373	122.6407	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26558	112.0443	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27913	115.0667	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26953	113.3492	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26953	113.3492	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26588	113.4791	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26588	113.4791	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26774	112.8979	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26675	111.9907	'LEA COUNTY REC-PLAINS INTERCHANGE - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26675	111.9407	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26675	111.9791	'LEHMAN_TP 3115.00 - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26687	113.1389	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27189	111.9133	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27889	116.7284	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26684	113.3087	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26684	113.3087	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26831	113.6061	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29748	121.6211	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29748	121.6211	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27282	113.8279	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26591	114.1673	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26583	115.8253	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26371	113.8008	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26628	113.3948	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26871	113.4224	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26561	113.385	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26737	113.206	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26582	113.7161	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26675	113.3121	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2656	113.0119	''P12:115:SPS:V99.1.PLAINS.YOAKUM''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26563	113.1362	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26551	113.1694	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	112.9823	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	113.1695	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	113.1802	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26785	112.976	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2637	114.3882	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	113.5185	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2685	113.686	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2663	112.9345	''P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26403	112.3686	''P42:345:OKGE:SB_BVTY7315''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26676	113.4487	''P42:345:OKGE:SB_WWHV7383''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	108.3996	''P42:345:SPS:POTTER-2R05''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	113.0204	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	113.0914	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2664	113.0162	''P44:69:SPS:HUTCHISON_1834''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26549	113.8135	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26547	113.0655	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2664	113.1472	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26631	113.2529	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26675	113.2351	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24682	105.4946	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2662	115.5789	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2662	115.5789	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26714	113.3022	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26714	113.3022	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26719	113.3186	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26719	113.3186	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26705	111.9341	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26831	117.3366	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26831	117.3366	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26847	113.586	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33642	124.9038	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.33642	124.9038	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26567	113.3265	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26567	113.3265	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26567	113.3519	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26567	113.3519	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.37965	100.2464	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.37965	100.2464	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32121	101.3859	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.32121	101.3859	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29065	103.3332	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.29065	103.3332	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.36614	103.0236	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.36614	103.0236	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28584	100.7436	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21WP	G16_121	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.28584	100.7436	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G16_121	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.0473	100.4228	System Intact
FDNS	06ALL	2	21SP	G16_121	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.0473	100.4228	System Intact
FDNS	06ALL	2	21SP	G16_121	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.0473	100.11	System Intact
FDNS	06ALL	2	21SP	G16_121	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.0473	100.11	System Intact
FDNS	06ALL	2	21WP	G16_121	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04488	102.1528	System Intact
FDNS	06ALL	2	21WP	G16_121	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04488	102.1528	System Intact
FDNS	06ALL	2	21WP	G16_121	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04488	101.3538	System Intact
FDNS	06ALL	2	21WP	G16_121	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04488	101.3538	System Intact
FDNSLock-Blown up	06ALL	2	21L	G16_121		Non-Converge	0	0	0.15887	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21L	G16_121		Non-Converge	0	0	0.40443	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21L	G16_121		Non-Converge	0	0	0.5203	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	2	21SP	G16_121		Non-Converge	0	0	0.0616	9999	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNSLock-Blown up	06ALL	2	21SP	G16_121		Non-Converge	0	0	0.47566	9999	''P42:345:SPS:TUCO-1XXX''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	2	21WP	G16_121		Non-Converge	0	0	0.18604	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21WP	G16_121		Non-Converge	0	0	0.45782	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	G16_121		Non-Converge	0	0	0.43641	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	2	26SP	G16_121		Non-Converge	0	0	0.06188	9999	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.06368	111.2135	System Intact
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.06368	111.2135	System Intact
FDNS	06ALL	0	21WP	G16_123	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.08108	101.7193	System Intact
FDNS	06ALL	0	21WP	G16_123	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.08108	101.7193	System Intact
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82213	102.8099	'ALLRED TAP - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82878	101.2505	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82878	101.2505	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82878	104.3799	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82878	104.3799	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82042	101.4313	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82042	101.4313	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.981	System Intact
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.981	System Intact
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82154	102.7685	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82154	102.8626	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8205	101.5409	'BOPCO_PKRLK3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82287	102.9226	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82287	102.9226	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82177	102.6433	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82177	102.6433	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82176	102.4568	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82176	102.4568	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	102.9786	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	102.7005	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	127.1527	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.83563	100.8798	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.83563	100.8798	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8209	101.5113	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8209	101.5113	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82163	102.5282	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82163	102.5282	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	126.6682	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	126.6682	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82528	103.5387	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82528	103.5387	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82098	102.4099	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82098	102.4099	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.83824	107.0597	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.83824	109.3351	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82174	102.5006	'GAINES COUNTY INTERCHANGE - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2478	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.9446	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.3118	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.3135	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.284	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2879	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2868	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2512	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.3922	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.4914	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2247	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.1895	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.1572	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.4138	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.0039	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.5348	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.5205	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.5212	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.9767	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.4009	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.8913	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.5492	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.9044	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.8292	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.4801	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.81723	102.069	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.81723	102.069	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8214	102.4174	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8214	102.4174	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82174	102.6086	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8227	103.4221	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8227	103.4221	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82213	103.0002	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.5344	'LEA COUNTY REC-PLAINS INTERCHANGE - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.4443	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.5267	'LEHMAN_TP 3115.00 - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8214	103.1803	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.2118	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.2118	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82087	101.2051	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82087	101.3791	'National Enrichment Plant Tap - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82314	104.194	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82314	100.1936	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8218	102.7269	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8218	102.7269	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82254	102.8052	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82467	103.7196	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82054	104.5513	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8206	105.4312	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82041	102.7086	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82072	102.485	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82054	103.4103	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82083	102.4345	''P12:115:SPS:T64.1.RNDALL.PULLMN''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82055	103.2625	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82243	102.9509	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82048	103.6066	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82154	103.1082	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8206	103.0784	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	102.7703	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82213	102.8808	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82046	102.7308	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82043	102.4865	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.1167	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.4895	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82065	102.6609	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.7061	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82174	102.7784	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82038	102.4973	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8205	103.4638	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.6478	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82039	102.8807	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82272	102.8872	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	127.1503	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	127.1503	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.6598	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.9449	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.9041	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	104.6487	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.7386	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82087	102.902	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82082	102.7757	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	102.6275	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82517	102.8059	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82517	102.8059	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82088	100.832	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82088	100.832	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.4032	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.4032	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8205	101.1204	'RED_BLUFF 3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8213	101.4281	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82497	102.7228	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82497	102.7228	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.77957	108.5021	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.77957	108.5021	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82144	103.2262	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82144	103.2262	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82144	103.2262	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82144	103.2262	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81936	112.4752	'ALLRED TAP - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81854	112.3072	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81854	112.3072	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82528	112.2866	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82528	112.2866	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82528	115.3177	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82528	115.3177	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81761	111.1178	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81761	111.1178	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.6394	System Intact
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.6394	System Intact
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81876	112.5203	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81876	112.6057	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81771	111.1136	'BOPCO_PKRLK3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81995	112.5796	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81995	112.5796	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81891	112.2791	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81891	112.2791	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83185	108.7016	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83185	108.7016	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84541	110.4685	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84541	110.4685	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81801	113.6932	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81807	112.8476	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81807	112.413	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78499	105.9041	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.5449	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84433	103.4998	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82992	108.3034	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82992	108.3034	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83324	109.8043	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83324	109.8043	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82111	109.1462	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82111	109.1462	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81812	111.1375	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81812	111.1375	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.309	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81883	112.2214	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81883	112.2214	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.236	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.1346	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.1404	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.1404	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.0047	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.0047	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82261	113.0021	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82261	113.0021	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83573	117.4065	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83573	119.8216	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.1532	'GAINES COUNTY INTERCHANGE - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.6838	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.2342	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.8163	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.8171	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.7842	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.8316	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.8304	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.7428	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.9151	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.5053	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.742	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.6276	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.5947	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.8926	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.8928	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.6288	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	109.862	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.3868	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.0012	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.0047	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	105.6402	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	107.925	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	105.6446	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	105.6446	'GEN527902 1-HOBBS PLANT #2 (CT)'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	102.7795	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.0278	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.5726	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.6489	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.1577	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.1421	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.1423	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.537	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.0063	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.7158	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.2811	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.0849	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.8593	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.3427	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	107.2129	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.2083	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	100.6541	'GEN587423 1-G16-062-GEN10.6900'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.0109	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.7119	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	105.7536	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	102.7538	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	109.4338	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81781	112.779	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81781	112.779	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81966	112.2625	'Higg Switch Station - XTO_RUSSEL 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81861	112.2546	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81861	112.2546	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.2871	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81995	113.2574	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81995	113.2574	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81936	112.8116	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81861	113.0511	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81815	110.8673	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81815	110.8673	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81808	110.8389	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81808	111.0185	'National Enrichment Plant Tap - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81972	115.47	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.5024	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.5024	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8197	112.7766	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84541	123.214	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84541	123.214	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82154	113.9609	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81774	114.0975	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8178	115.3965	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81761	112.1264	''P12:115:SPS:T24B.1.RSWLL.BRSHRF''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81789	112.1746	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81775	113.1564	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.2806	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81776	112.7604	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81966	112.8515	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81768	112.8608	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81876	112.8106	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81776	112.8544	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81807	112.5003	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81936	112.625	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81766	112.4137	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81763	112.2443	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.8444	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	113.2377	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81786	112.1805	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.4032	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.4839	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.207	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81771	113.457	''P12:115:SPS:W41.2.HERFRD.DFSMTH''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	113.2799	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81758	112.4297	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81987	112.9319	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81801	112.705	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.5443	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.5443	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	106.7474	''P42:345:SPS:POTTER-2R05''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	113.6369	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.592	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.1917	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.6556	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	114.4127	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	113.4765	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81802	112.9644	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81798	112.7555	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81807	112.3066	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81923	111.1093	'PCA INTERCHANGE - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81923	111.1093	'PCA INTERCHANGE - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82251	112.2827	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82251	112.2827	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81786	111.1851	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81786	111.1851	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79829	107.6327	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81602	112.8542	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81602	112.8542	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81771	110.6352	'RED_BLUFF 3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81837	112.1678	'ROOSEVELT COUNTY INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT @1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81856	112.223	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81856	112.223	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81859	112.2324	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81859	112.2324	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81848	111.0794	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81798	112.0992	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81798	112.0992	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81801	112.7035	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81801	112.7117	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82198	112.2643	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82198	112.2643	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77604	116.0929	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77604	116.0929	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81468	112.9277	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81421	110.9867	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81852	113.0276	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81852	113.0276	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81852	113.0561	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81852	113.0561	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81999	104.8866	'ALLRED TAP - INK_BASIN 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82754	104.6988	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82754	104.6988	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82754	108.1119	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82754	108.1119	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81929	103.7163	'AMOCO TAP - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.6044	'ANDREWS 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.6044	'ANDREWS 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.1695	System Intact
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.1695	System Intact
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82016	104.9642	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82016	105.0773	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82143	105.057	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82143	105.057	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83337	101.7154	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83337	101.7154	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81958	105.4184	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81958	104.8142	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.6582	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8324	103.2006	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8324	103.2006	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8213	102.9078	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8213	102.9078	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8751	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8203	105.0613	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8203	105.0613	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.7623	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.7145	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82018	104.8437	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82018	104.8437	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.1757	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.1757	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82432	105.5947	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82432	105.5947	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81973	104.7003	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81973	104.7003	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81964	104.6391	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81964	104.6391	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83569	108.1244	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83569	110.2514	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.3891	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.013	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4664	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4681	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4371	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4416	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4405	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4026	'GEN524902 1-SNJN-WTG12 10.6000'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.551	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.6321	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.2141	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.8039	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.281	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.5635	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.5636	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.3196	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.4335	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.3833	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	100.1176	'GEN527166 1-MUSTANG_6 118.000'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	100.6712	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	100.675	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.8426	'GEN527881 1-CUNNINGHAM GEN #1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.6403	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.1314	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.2106	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.71	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.7025	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.7032	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.0888	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.5532	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4966	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.9989	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.6806	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.516	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.0204	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.9237	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.6087	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.3004	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.0071	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81583	104.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81583	104.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82009	102.3437	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82009	102.3437	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82009	102.315	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81921	103.709	'HOCKLEY COUNTY INTERCHANGE - LAMB COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81921	103.709	'HOCKLEY COUNTY INTERCHANGE - LAMB COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83199	107.1569	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82038	104.6295	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82129	105.5504	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82129	105.5504	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81975	103.7373	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81975	103.7373	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81929	103.6341	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81929	103.6341	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8187	103.5833	'LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8187	103.584	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8187	103.584	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82035	104.7866	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81985	105.2626	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8196	103.0463	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8196	103.0463	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82193	106.9414	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82193	102.7133	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8204	104.7101	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8204	104.7101	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82044	104.942	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82044	104.942	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82115	104.8751	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82343	107.3037	"P11:115:533:PRATT_P2:1:539687(P2)"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81917	107.2614	"P12:115:SPS:T19.1.TERRY.SULPHUR"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81924	108.43	"P12:115:SPS:T20.1.SEGRVS.SULPHUR"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81905	104.845	"P12:115:SPS:T24B.1.RSWLL.BRSHRF"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81905	104.7243	"P12:115:SPS:T28.1.LAMTON.PLANTX"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81937	104.842	"P12:115:SPS:T37.1.SUNSET.PUCKT"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81917	105.6212	"P12:115:SPS:T42.1.WHOBBS.MADDOX"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81907	104.6166	"P12:115:SPS:T45.1.NORRIS.OASIS"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8153	"P12:115:SPS:T61.1.EDDY_S.PECOS"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81917	105.5524	"P12:115:SPS:T86.1.AMASTH.SPGDRW"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81919	104.6299	"P12:115:SPS:T87.1.SPRMN.HANSFRD"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82099	105.0656	"P12:115:SPS:T93.1.HUTCH.MARTIN"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81913	105.8133	"P12:115:SPS:T99.1.LEA_NA.HOBBG"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82016	105.3782	"P12:115:SPS:U02.1.PORTA.GREYHND"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81927	105.5392	"P12:115:SPS:V51.1.HERFRD.DFSMTH"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81958	104.9242	"P12:115:SPS:V61.1.PCA.CRLBAD"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81924	104.6615	"P12:115:SPS:V93.1.PNTX_N.PNTX_S"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8191	104.6152	"P12:115:SPS:V99.1.PLAINS.YOAKUM"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81909	105.0215	"P12:115:SPS:W01.1.CARSON.MARTIN"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81906	104.7794	"P12:115:SPS:W13.1.SMINLE.ROZ"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.4717	"P12:115:SPS:W24.1.MOOREE.LASLEY"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.8946	"P12:115:SPS:W25.1.PECOS.OCOTILLO"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81912	104.8822	"P12:115:SPS:W28.1.OCLTRE.COLE"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.9456	"P12:115:SPS:W36.1.TAYLOR.JNSDRW"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82038	104.8336	"P12:115:SPS:W38.1.RDBLUFF.WIPP"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81903	104.7919	"P12:115:SPS:W40.1.WCANYON.DFSMTH"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81902	106.1301	"P12:115:SPS:W41.2.HERFRD.DFSMTH"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.9328	"P12:115:SPS:W76.1.QUAHA.PCA"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81903	105.2395	"P12:230:SPS:4K60.1.RSVLT_S.HVDC"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8187	103.5836	"P12:230:SPS:K39.1.CRLSLE.MLWAKEE"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82131	104.963	"P12:230:SPS:K53.1.NICHLS.GRAPE"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.6585	"P12:345:SPS:J17.1.TUCO.YOAKUM"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.6585	"P22:345:SPS:HITCHLAND_AT2"
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	106.4996	"P44:69:SPS:BOARDMAN_8845"

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.3334	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.8984	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.3926	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.6314	''P44:69:SPS:GRAY_CNTY_2830''
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	107.068	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	106.3264	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81954	105.8596	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81948	105.5033	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81958	104.6841	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82401	104.7487	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82401	104.7487	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81959	103.0526	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81959	103.0526	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.6501	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.6501	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81989	103.7053	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81948	104.7118	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81948	104.7118	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82364	105.0825	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82364	105.0825	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77764	110.5568	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77764	110.5568	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81527	105.6194	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8937	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8937	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8937	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8937	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81975	104.7291	'WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81975	104.7291	'WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77836	120.6823	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77836	120.6823	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77836	123.5159	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77836	123.5159	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	121.6564	System Intact
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	121.6564	System Intact
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77709	122.1293	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77683	123.413	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77683	123.413	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77955	122.1626	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77955	122.1626	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78559	118.0394	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78559	118.0394	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77681	122.4518	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77681	122.3227	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80617	118.4865	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78902	122.6522	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78902	122.6522	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78006	120.6278	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78006	120.6278	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7864	123.179	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7864	123.179	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77935	122.1234	'EDDY_STH 3115.00 - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77935	122.1234	'EDDY_STH 3115.00 - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78029	123.9179	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78029	124.9763	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.5863	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.5041	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8098	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8114	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7767	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8388	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8377	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7329	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.911	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.605	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.34	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.103	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8503	'GEN526678 1-CIRRUS_WND 10.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.2038	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.2039	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.3808	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.2076	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.2098	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	106.2508	'GEN527651 1-RSVLT_WIND110.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	106.4935	'GEN527652 2-RSVLT_WIND210.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	115.5191	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	115.505	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	116.7422	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	116.7422	'GEN527902 1-HOBBS PLANT #2 (CT)'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	114.5316	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7156	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.1437	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.6929	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	121.1049	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7334	'GEN562007 1-G11-025-GEN 0.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.5473	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.0236	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.1723	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.8308	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.2003	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	109.3413	'GEN562942 1-G15056_3 0.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.049	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.4279	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	112.9369	'GEN587423 1-G16-062-GEN10.6900'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.1013	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.1815	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	117.443	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	103.748	'GEN588003 1-G16-123-GEN10.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	103.5096	'GEN588006 1-G16-123-GEN20.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	103.5096	'GEN588013 1-G16-124-GEN10.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	112.5933	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.6807	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7189	'GEN588443 1-G16-172-GEN10.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7413	'GEN588446 1-G16-172-GEN20.6900'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78139	120.1952	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78139	120.1952	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77795	124.4886	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77909	124.0348	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77746	122.4353	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77746	122.4353	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77758	120.9761	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77758	120.9761	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77695	122.2695	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77514	125.2165	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77791	123.0907	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77746	122.9885	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7768	123.3511	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77701	122.9694	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77682	122.5056	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77736	122.5638	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77677	122.5389	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77709	122.3483	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77666	122.9276	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77681	122.3624	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77675	122.1941	''P12:115:SPS:V99.1.PLAINS.YOAKUM''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77676	122.2942	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77675	122.3639	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.2668	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.4815	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.3588	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77714	122.1337	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	123.3327	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.6607	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77801	123.1855	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	116.5486	''P42:345:SPS:POTTER-2R05''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.3263	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.2787	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.913	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.4485	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77677	122.2912	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7768	122.4548	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77681	122.2965	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78591	122.6439	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78591	122.6439	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77771	122.2026	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77771	122.2026	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7772	122.1548	'ROOSEVELT COUNTY INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77718	122.6951	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77718	122.6951	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7772	122.7147	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7772	122.7147	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77708	121.1911	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79409	105.691	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79409	105.691	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7961	105.9326	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7961	105.9326	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.8842	System Intact
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.8842	System Intact
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79346	104.3493	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79346	104.4383	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79467	105.4877	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79467	105.4877	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79399	104.5252	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79399	104.5252	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79549	104.4085	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79549	104.4085	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80323	101.7551	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80323	101.7551	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.3164	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.3164	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79325	104.7878	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	134.759	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81805	101.1604	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80517	104.9622	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80517	104.9622	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81259	102.371	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81259	102.371	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79575	102.2519	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79575	102.2519	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79378	104.7588	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79378	104.5751	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79378	104.5273	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	133.284	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	133.284	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8016	105.8303	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8016	105.8303	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79404	104.5501	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79404	104.5501	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79392	104.4762	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79392	104.4762	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79747	105.3359	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79747	106.3391	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1211	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.7517	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1601	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.161	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1329	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1772	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1763	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.098	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.2403	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.9929	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.4885	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.125	'GEN525844 1-ELK_1 118.000'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1659	'GEN525845 1-ELK_2 1 18.000'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.7321	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.3146	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.314	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.0337	'GEN526333 1-JONES GEN #3 21 KV'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.0212	'GEN526334 1-JONES_4 116.500'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7009	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7009	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.4983	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.8368	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7582	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.7497	'GEN527166 1-MUSTANG_6 118.000'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.7861	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.7878	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.3071	'GEN527881 1-CUNNINGHAM GEN #1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.8532	'GEN527883 1-CUNNINGHAM GEN #3 22 KV'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.0968	'GEN527884 1-CUNNINGHAM GEN #4 22 KV'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.0767	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7166	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.0447	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.6885	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.8744	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.5417	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7161	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.8108	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.7661	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.4784	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.4835	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.788	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.2306	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.2583	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79791	100.5038	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79791	100.5038	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80858	106.8647	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80858	106.8647	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79551	106.5919	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79657	104.9925	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79389	104.6462	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79389	104.6462	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79385	102.7528	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79385	102.7528	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79272	103.408	'LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79272	103.4032	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79272	103.4032	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79334	104.5857	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79316	103.4089	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79316	103.4089	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79326	105.7781	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79326	102.884	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79424	106.0067	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79424	106.0067	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79446	104.3965	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.0713	'OKLAUN HVDC7345.00 - OKLAUNION 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.0703	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7947	105.7898	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79309	106.2986	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79312	107.274	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.7935	''P12:115:SPS:T26.1.CHAVES.RSWLCTY''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79305	104.3992	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79317	104.3324	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79327	104.9713	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79378	104.5848	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79307	104.8012	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79373	104.4264	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79307	105.0883	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79346	104.7277	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79311	104.8737	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79325	104.3201	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79306	104.496	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.3773	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.8104	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.1636	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79305	104.4457	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.4127	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7931	104.4006	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.1764	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.072	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79304	104.8539	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79272	103.4063	''P12:230:SPS:K39.1.CRLSLE.MLWAKEE''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79457	104.4754	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	134.7586	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	134.7586	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.4975	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.7136	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.4994	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.9275	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.3021	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.4703	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79323	105.0841	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79321	104.8198	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79929	103.1652	'PECOS INTERCHANGE - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79929	103.1652	'PECOS INTERCHANGE - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80096	104.7566	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80096	104.7566	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79297	103.1263	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79297	103.1263	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79393	104.4663	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79393	104.4663	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79357	105.0249	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79357	105.0249	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75296	114.4015	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75296	114.4015	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78916	105.6272	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80985	109.6921	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80985	109.6921	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79285	100	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79285	100	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79285	102.555	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79285	102.555	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.2309	System Intact
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.2309	System Intact
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79041	101.7019	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	101.8609	'CARGILL SUB - DEAF SMITH REC-#24 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79251	101.8018	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79251	101.8018	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.7371	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.7371	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	102.3545	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	101.9089	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.80213	101.8649	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.80213	101.8649	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79282	100	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79282	100	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	102.1775	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	102.0773	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	101.9958	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79875	103.5221	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79875	103.5221	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79103	101.7958	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79103	101.7958	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79091	101.7301	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79091	101.7301	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79231	101.745	'EDDY_STH 3115.00 - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79231	101.745	'EDDY_STH 3115.00 - PECOS INTERCHANGE 115KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79422	102.6134	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79422	103.7389	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2731	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2802	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2362	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2502	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2488	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2053	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.4037	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.1233	'GEN526678 1-CIRRUS_WND 10.6900'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.6921	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.1064	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.0842	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.5581	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100	'GEN562007 1-G11-025-GEN 0.6900'
FDNSLock	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79326	102.6771	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79082	101.9075	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79082	101.9075	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79082	100.2052	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79082	100.2052	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	100.795	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79028	101.8844	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79008	102.431	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79141	101.7546	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.80824	108.0622	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.80824	108.0622	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.9954	''P12:115:SPS:T26.1.CHAVES.RSWLCTY''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79002	102.1409	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79024	102.7219	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	102.0422	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79115	101.7319	''P12:115:SPS:T64.1.RNDALL.PULLMN''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79005	102.4995	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79067	101.733	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79004	102.7731	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79041	102.1392	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNSLock	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79005	101.9212	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	101.9939	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79018	101.8247	''P12:115:SPS:V93.1.PNTX_N.PNTX_S''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79003	102.2919	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79001	101.923	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.3708	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.9532	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79002	102.2211	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.8781	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79007	101.8248	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.8081	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79001	102.2969	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79152	101.882	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.7929	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.3322	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.8825	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.2802	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	103.0404	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	103.218	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79017	102.4015	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79016	102.2184	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	101.956	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7981	102.5984	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7981	102.5984	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.78983	100.5261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.78983	100.5261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7909	101.8843	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7909	101.8843	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79046	100.793	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.78683	101.9657	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	26SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.9101	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	26SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.4052	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	26SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.4052	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	26SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.9101	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	26SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.9101	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	21SP	G16_123	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.06793	100.2876	System Intact
FDNS	06ALL	0	21SP	G16_123	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.06793	100.2876	System Intact
FDNS	06ALL	0	18G	G16_123	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07318	113.3	System Intact
FDNS	06ALL	0	18G	G16_123	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07318	113.3	System Intact
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.05264	143.02	System Intact
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.05264	143.02	System Intact
FDNS	06ALL	0	21SP	G16_123	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07123	109.3228	System Intact
FDNS	06ALL	0	21SP	G16_123	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07123	109.3228	System Intact
FDNS	06ALL	0	21WP	G16_123	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.06677	125.0648	System Intact
FDNS	06ALL	0	21WP	G16_123	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.06677	125.0648	System Intact
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05397	100	System Intact
FDNS	06ALL	0	21L	G16_123	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05397	100	System Intact
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	104.4953	'3491-MOORE COUNTY INTERCHANGE W.'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	105.4916	'ALTUS JUNCTION - RUSSELL 138KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	105.4916	'ALTUS JUNCTION - RUSSELL 138KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.2788	'AMOCO TAP - CHILDRESS 69KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.8844	'ARNEGARD-MK7115.00 - EASTHYBT-MK7115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20059	103.941	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20059	103.941	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	104.4953	System Intact
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	104.4953	System Intact
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.6995	'BLACKHAWK STATION S. - QUENCH-RYTON TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	108.687	'BOWERS INTERCHANGE - Graves Sub 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	108.687	'BOWERS INTERCHANGE - Graves Sub 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	106.503	'BOWERS INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20089	103.9291	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20089	103.9291	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20228	105.2669	'CACHE - SNYDER 138KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20229	107.1118	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20229	107.1118	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	109.7545	'CHAN+TASCOS6230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	109.7545	'CHAN+TASCOS6230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.7391	'CHAN+TASCOS6230.00 - XIT_INTG 6230.00 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20405	104.6099	'CHERRY1 - HARRINGTON STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20405	104.6099	'CHERRY1 - HARRINGTON STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20481	106.2497	'CHERRY1 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20481	106.2497	'CHERRY1 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.2175	'CHILDRESS - HOLLIS TAP 138KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.2316	'CHILDRESS (CHLDR2WT) 138/69/12.47KV TRANSFORMER CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.2316	'CHILDRESS (CHLDR2WT) 138/69/12.47KV TRANSFORMER CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.6976	'CLARENDON - CLARENDON REC 69KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7384	'CLARENDON - HWRDWCK2 69.000 69KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.6079	'CLARENDON REC - HEDLEY 69KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20286	105.6394	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20286	105.6394	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20351	105.9599	'DALLAM COUNTY INTERCHANGE - SHERMAN COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.3139	'DALLAM COUNTY INTERCHANGE - XIT_INTG 3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.3139	'DALLAM COUNTY INTERCHANGE - XIT_INTG 3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	105.6827	'DUMAS SUB - EXELL TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	105.1654	'DUMAS SUB - RB-S&S 3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20222	106.3214	'EAST LIBERAL - TEXAS COUNTY INTERCHANGE PHASE SHIFT TFMR 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	106.3214	'EAST LIBERAL - TEXAS COUNTY INTERCHANGE PHASE SHIFT TFMR 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.9236	'EASTHYBT-MK7115.00 - LSSSW_SOUTH7115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	106.0359	'EXELL TAP - FAIN SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	106.1285	'FAIN SUB - NICHOLS STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.19912	104.8227	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.19912	104.8227	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.1043	'GEN522866 1-LUBBOCK POWER & LIGHT-HOLLY GEN'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.3403	'GEN523277 1-VALERO SUB'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.3571	'GEN523461 1-BLACKHAWK GEN #1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.3569	'GEN523462 1-BLACKHAWK GEN #2'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.8696	'GEN524022 1-NICHOLS GEN #2'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0207	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.4773	'GEN524491 1-TUCUMCARI GEN'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.3329	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.3386	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.2869	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.272	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.2699	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.2311	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.4744	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.4643	'GEN525910 1-PLSNTHLLWND10.6900'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.3332	'GEN526678 1-CIRRUS_WND 10.6900'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.2529	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0915	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0948	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.8446	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.0657	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0536	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	104.8636	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	106.2832	'GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.3797	'GEN542962 2-IATAN UNIT #2'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.0562	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.6869	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.7613	'GEN560759 1-ASGI13_02_3 0.6900'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.5773	'GEN560762 1-ASGI13_03_3 0.6900'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.5323	'GEN562007 1-G11-025-GEN 0.6900'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.5512	'GEN562325 1-ASGI_12_02_30.6900'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	102.9765	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	102.8932	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0593	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.7332	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.3522	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.1628	'GEN640009 1-COOPER NUCLEAR STATION'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.174	'GEN640011 2-GERALD GENTLEMAN STATION UNIT 2'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.1369	'GEN645012 2-NEBRASKA CITY 2'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.1717	'GEN659118 1-LARAMIE RIVER UNIT1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	106.4779	'Graves Sub - STATELINE INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	106.4779	'Graves Sub - STATELINE INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20227	105.2391	'GRAY COUNTY INTERCHANGE - HUTCHINSON COUNTY INTERCHANGE S. 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20227	105.2358	'GRAY COUNTY INTERCHANGE (WH RHP17221) 115/69/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20227	105.2358	'GRAY COUNTY INTERCHANGE (WH RHP17221) 115/69/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20473	105.5769	'Harrington Station East Bus - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20473	105.5769	'Harrington Station East Bus - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20476	108.96	'Harrington Station East Bus - PRINGLE INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.6141	'HEDLEY - NORTH MEMPHIS REC 69KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20243	105.5842	'HERRING TAP - RITA BLANCA REC-SNEED 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20243	105.6251	'HERRING TAP - RIVERVIEW INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20345	105.5156	'HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20345	105.5156	'HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20599	107.738	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20599	107.738	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20354	105.4032	'HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20354	105.4032	'HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20708	109.1618	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20708	109.1618	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20354	105.4032	'HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20354	105.4032	'HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.5383	'HOLLIS TAP - WELLINGTON 138KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20364	105.7459	'HUTCHINSON COUNTY INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20364	105.7459	'HUTCHINSON COUNTY INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7753	'HWRDWCK2 69.000 - JERICHO 69KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7761	'JERICHO - KIRBY SWITCHING STATION 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7761	'JERICHO - KIRBY SWITCHING STATION 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7661	'JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7661	'JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20308	105.2712	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20308	105.2712	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20308	105.1609	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2026	105.988	'KINGSMILL INTERCHANGE - LLANO ESTACADO WIND GEN 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	107.1747	'KINGSMILL INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.7399	'KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20297	106.9843	'LAKE PAULINE - RUSSELL 138KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20297	106.9843	'LAKE PAULINE - RUSSELL 138KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.9032	'LAMAR - LSSSW_SOUTH7115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.9032	'LAMAR 115/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2026	105.7141	'LLANO ESTACADO WIND GEN - MIDSTREAM ENERGY TAP 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.7085	'MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.338	'MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.338	'MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.571	'MEMPHIS - NW MEMPHIS 69KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2026	106.1201	'MIDSTREAM ENERGY TAP - NICHOLS STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2034	106.3075	'MOORE COUNTY INTERCHANGE EAST BUS - RB-SPURLCK+3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	104.9876	'MOORE COUNTY INTERCHANGE W. - RB-S&S 3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20243	105.3435	'MOORE COUNTY INTERCHANGE W. - RITA BLANCA REC-SNEED 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.4417	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.4029	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.5717	'NORTH MEMPHIS REC - NW MEMPHIS 69KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2041	108.0604	'OCHILTREE - TEXAS FARMS SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20345	105.2606	'OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20345	105.2606	'OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	105.0831	"P12:115:SPS:T27.1.NICHLS.DUMAS19"
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	105.6511	"P12:115:SPS:T28A.1.LAMTON.PLANTX"
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.2047	"P12:115:SPS:T51.1.BOWERS.GRAPE"
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	109.1277	"P12:115:SPS:T56.2.DC_S.MUSTG"
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20243	105.21	"P12:115:SPS:V03.1.NICHLS.EPLANT"

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2026	106.2875	''P12:115:SPS:V32.1.TXSCO.ELB(534)''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20227	105.2481	''P12:115:SPS:V37.1.CASTRO.PLANTX''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20351	105.7457	''P12:115:SPS:W07.1.HITCH.TXSCO''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2034	106.1218	''P12:115:SPS:W26.1.CUNGHM.OILCNTR''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2041	107.7513	''P12:115:SPS:W31.1.OASIS.PRMTR''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	109.1277	''P12:115:SPS-AEPW:KIRBY3:SHAM3WT''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.9628	''P12:115:UMZS:# 118 #: PAS IN SD. LINE FAULT BTWN ASH ST-EVANS ST''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20228	105.2665	''P12:138:AEPW:112GORE4:SNYDER-4''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.6605	''P12:138:AEPW:SHAM4WT:CHILD4WT''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20476	108.9526	''P12:230:SPS:K45.2.PLANTX.TOLK''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.6758	''P12:345:SPS:J01.1.TUCO.OKU(520)''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.0188	''P12:69:AEPW:CHLDR2WT:MEMPHIS2''
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7856	''P12:69:AEPW:JERICWT:CLARDON2''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.0695	''P12:69:AEPW:NWMEMPH2:CHLDR2WT''
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7374	''P12:69:AEPW:NWMEMPH2:CLARDON2''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20708	109.1618	''P22:345:SPS:ROADRUNNER_21S''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20504	107.6842	'P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20286	105.2393	''P23:345:AEPW:PITTSBURG CB 3425A NBTB''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20304	105.3928	''P23:345:AEPW:PITTSBURG CB 3429A NBTB''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20308	105.2732	''P23:345:AEPW:PITTSBURG CB 3433A NBTB''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20089	104.1649	''P23:345:SUNC:HLC_BRK182''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20087	104.2271	''P23:345:SUNC:HLC_BRK282''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.19942	104.3641	''P23:345:SUNC:MG_BRKXX''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20085	104.2354	''P23:345:SUNC:SV_BRK782''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20326	105.5042	''P42:345:OKGE:SB_JOCO7313''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20326	105.0828	''P42:345:OKGE:SB_JOCO7383''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	105.1709	''P44:69:SPS:CASTRO_CNTY_9734_6G20''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.9516	''P44:69:SPS:TC-TXCOUNTY_XXXX''
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.2303	'PRINGLE INTERCHANGE - QUENCH-RYTON TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20313	106.0222	'PRINGLE INTERCHANGE - RIVERVIEW INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20313	106.0222	'PRINGLE INTERCHANGE - RIVERVIEW INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20358	107.7607	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20358	107.7607	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20476	108.4523	'PRINGLE INTERCHANGE (ENRCO13617-1) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20476	108.4523	'PRINGLE INTERCHANGE (ENRCO13617-1) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2034	106.2208	'RB-ELKS 3115.00 - RB-SPURLCK+3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2034	106.1305	'RB-ELKS 3115.00 - SHERMAN COUNTY TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.3699	'SHAMROCK - WELLINGTON 138KV CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.2715	'SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1'
FDNSLock	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.2715	'SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.5703	'SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.5703	'SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20351	105.7817	'SHERMAN COUNTY SUB - SHERMAN COUNTY TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2041	108.5795	'SPEARMAN INTERCHANGE - SPEARMAN SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2041	108.3085	'SPEARMAN SUB - TEXAS FARMS SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	106.564	'STATELINE INTERCHANGE (H TP80154301) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	106.564	'STATELINE INTERCHANGE (H TP80154301) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20097	106.0795	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20097	106.0795	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	106.3218	'TEXAS COUNTY INTERCHANGE - TEXAS COUNTY INTERCHANGE PHASE SHIFT TFMR 115KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20432	106.9395	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20432	106.9395	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.2946	'XIT_INTG 6230.00 (SIEM_T126401) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.2946	'XIT_INTG 6230.00 (SIEM_T126401) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.04867	103.1502	System Intact
FDNS	06ALL	0	21L	G16_123	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.04867	103.1502	System Intact
FDNSLock-Blown up	06ALL	0	17WP	G16_123		Non-Converge	1793	1793	0.18841	26.44219	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_123		Non-Converge	1022	1143	0.2266	59.59728	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_123		Non-Converge	740.37	740.37	0.82037	101.981	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_123		Non-Converge	318.69	318.69	0.05302	44.80788	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_123		Non-Converge	318.69	318.69	0.05302	44.80788	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_123		Non-Converge	0	0	1.00842	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	17WP	G16_123		Non-Converge	0	0	0.24703	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	17WP	G16_123		Non-Converge	0	0	0.53519	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	17WP	G16_123		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	17WP	G16_123		Non-Converge	0	0	0.72686	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	18G	G16_123		Non-Converge	1793	1793	0.18235	31.21747	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_123		Non-Converge	1022	1143	0.22033	68.00926	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_123		Non-Converge	717.06	717.06	0.81757	111.6394	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_123		Non-Converge	956.09	956.09	0.241	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_123		Non-Converge	956.09	956.09	0.241	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_123		Non-Converge	0	0	1.12537	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	18G	G16_123		Non-Converge	0	0	0.23961	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	18G	G16_123		Non-Converge	0	0	0.25368	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	18G	G16_123		Non-Converge	0	0	0.52136	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	18G	G16_123		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	18G	G16_123		Non-Converge	0	0	0.85309	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	18SP	G16_123		Non-Converge	1793	1793	0.18859	29.57274	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_123		Non-Converge	956	1042	0.21907	61.96857	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_123		Non-Converge	717.06	717.06	0.81901	104.1695	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_123		Non-Converge	318.69	318.69	0.05259	44.02533	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_123		Non-Converge	318.69	318.69	0.05259	44.02533	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_123		Non-Converge	0	0	1.27604	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	18SP	G16_123		Non-Converge	0	0	0.23991	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	18SP	G16_123		Non-Converge	0	0	0.53629	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	18SP	G16_123		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	18SP	G16_123		Non-Converge	0	0	0.96091	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	500.8	556.5	0.05816	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	500.8	556.5	0.05816	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	1793	1793	0.15773	42.62265	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	1793	1793	0.12316	29.83855	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	478	502	0.07072	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	478	502	0.07072	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	318.69	318.69	0.05864	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	318.69	318.69	0.05864	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	1195	1195	0.07635	32.97946	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	478.04	478.04	0.03615	11.44848	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	478.04	478.04	0.03615	11.44848	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	439	439	0.03152	59.82893	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	421	439	0.06368	111.2135	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	1793	1793	0.06673	22.60611	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	675	743	0.03216	30.2285	'CHISHOLM7 345.00 () 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	1022	1143	0.18026	85.48402	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	717.06	717.06	0.22326	15.59045	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	717.06	717.06	0.77674	121.6564	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	515	558	0.22326	18.4564	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	515	558	0.22326	18.4564	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	287	316	0.03152	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	287	316	0.03152	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	956.09	956.09	0.08459	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	956.09	956.09	0.08459	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	956.1	1051.7	0.08459	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	956.1	1051.7	0.08459	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	1793	1793	0.06673	23.6207	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	717	789	0.06012	46.87057	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	1195	1195	0.11721	36.51713	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	318.69	318.69	0.05264	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	318.69	318.69	0.05264	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	433	500	0.05397	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	433	500	0.05397	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	497.16	546.96	0.05348	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	497.16	546.96	0.05348	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	956.09	956.09	0.20226	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	956.09	956.09	0.20226	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	956.1	1051.7	0.09982	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	956.1	1051.7	0.09982	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	1792	1792	0.05975	13.85183	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	1792	1792	0.05975	13.85183	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	318.69	318.69	0.04867	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	318.69	318.69	0.04867	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	375.26	412.71	0.0578	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	375.26	412.71	0.0578	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	318.69	318.69	0.03615	60.71251	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	318.69	318.69	0.03615	60.71251	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.12736	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.44652	9999	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	1.12268	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.19513	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.11514	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.13949	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.08459	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.12634	9999	''P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.20268	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.10134	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.11721	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.11721	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.11721	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.11721	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.11247	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.08459	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.46347	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	0	0	0.89568	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	1195	1195	0.2612	48.61858	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	504	555	0.06368	96.02361	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	504	555	0.06368	95.71223	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	1792	1792	0.04743	17.74159	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_123		Non-Converge	1792	1792	0.04743	17.74159	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	1793	1793	0.18992	37.78229	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	1793	1793	0.14899	28.82343	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	353	353	0.08633	86.61529	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	956	1042	0.21939	76.05145	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	717.06	717.06	0.79303	103.8842	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	318.69	389	0.06793	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	318.69	389	0.06793	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	318.69	318.69	0.07123	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	318.69	318.69	0.07123	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	433	500	0.07314	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	433	500	0.07314	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	956.09	956.09	0.24662	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	956.09	956.09	0.24662	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	318.69	318.69	0.06227	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	318.69	318.69	0.06227	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	318.69	318.69	0.04251	42.68379	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	318.69	318.69	0.04251	42.68379	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	0	0	0.17267	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	0	0	1.17497	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	0	0	0.24049	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	0	0	0.10852	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	0	0	0.15779	9999	''P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	0	0	0.2537	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	0	0	0.16326	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	0	0	0.10852	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	0	0	0.52522	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	0	0	0.90078	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	1195	1195	0.27861	56.72121	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	504	555	0.08633	48.59974	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21SP	G16_123		Non-Converge	504	555	0.08633	48.27787	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	500.8	556.5	0.05864	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	500.8	556.5	0.05864	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1793	1793	0.18131	41.74516	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1793	1793	0.14221	29.26695	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1793	1793	0.18131	41.74516	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	557	557	0.07248	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	557	557	0.07248	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	318.69	318.69	0.06124	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	318.69	318.69	0.06124	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	557	557	0.07248	46.1797	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1195	1195	0.09162	33.5474	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1792	1792	0.12063	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1792	1792	0.12063	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1792	1792	0.12063	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1792	1792	0.12063	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	439	439	0.03932	63.4582	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	421	439	0.08108	101.7193	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1793	1793	0.08086	21.23961	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	956	956	0.12617	62.35377	'CIMARRON - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1022	1143	0.20927	81.02731	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1195	1195	0.28705	38.97808	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	740.37	740.37	0.21	29.78283	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	740.37	740.37	0.79	101.2309	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	329.05	389	0.0657	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	329.05	389	0.0657	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	329.05	389	0.0657	77.71954	'DEAF SMITH COUNTY INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	558	558	0.21	37.52913	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	558	558	0.21	37.52913	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	956.09	956.09	0.10316	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	956.09	956.09	0.10316	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	987.2	1082.8	0.10316	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	987.2	1082.8	0.10316	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1793	1793	0.08086	23.59854	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	717	789	0.06395	40.22197	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1195	1195	0.12617	41.01586	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	345.78	345.78	0.06677	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	345.78	345.78	0.06677	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	500	556	0.06866	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	500	556	0.06866	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	552.14	607.51	0.06669	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	552.14	607.51	0.06669	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1036.76	1036.76	0.23532	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1036.76	1036.76	0.23532	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	987.2	1082.8	0.12173	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	987.2	1082.8	0.12173	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1792	1792	0.07617	7.996662	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1792	1792	0.07617	7.996662	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1195	1195	0.11183	50.44144	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	329.05	329.05	0.05884	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	329.05	329.05	0.05884	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	449.76	494.77	0.06014	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	449.76	494.77	0.06014	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.03989	9999	''P12:230:SPS:K45.2.PLANTX.TOLK''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.16215	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.03237	9999	''P12:345:SPS:J01.1.TUCO.OKU(520)''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.42	9999	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.88733	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.08411	9999	'P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.22942	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.13672	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.16955	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.10316	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.14963	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.24125	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.12063	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.12063	9999	''P42:345:OKGE:SB_BVTY7385''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_MICO7301''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.15607	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.10316	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.50739	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	0	0	0.63992	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1195	1195	0.27206	54.77373	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	560.9	617	0.08108	66.37998	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	560.9	617	0.08108	66.11691	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1195	1195	0.11183	57.37275	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	318.69	318.69	0.04958	60.80061	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	318.69	318.69	0.04958	60.80061	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1792	1792	0.07289	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_123		Non-Converge	1792	1792	0.07289	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_123		Non-Converge	717.06	717.06	0.79432	85.52613	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_123		Non-Converge	318.69	318.69	0.04294	29.08259	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_123		Non-Converge	318.69	318.69	0.04294	29.08259	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_123		Non-Converge	0	0	0.92018	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	26SP	G16_123		Non-Converge	0	0	0.64297	9999	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	18G	G16_123	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.2661	103.6849	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.21318	101.9113	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24937	105.8431	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24937	111.1664	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	21WP	G16_123	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.23754	114.9962	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_123	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.23754	120.3499	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	129.2377	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	129.5162	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	129.7111	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	133.9565	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.3836	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.8399	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.0469	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.2899	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.807	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	135.549	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	137.5301	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.369	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.7823	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	135.3875	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	129.935	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	130.7562	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	26SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.1565	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	26SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.3254	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	26SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.951	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	123.1685	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	123.172	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	17WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	123.1777	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.8945	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79155	104.0045	'EDDY COUNTY INTERCHANGE - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74919	100.7726	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77637	104.78	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77637	104.78	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74444	100.7165	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75571	104.8104	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75571	104.8104	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74288	100.9209	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.8992	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.9035	''P22:345:SPS:HITCHLAND_AT2''
FDNSLock	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74559	100.5421	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74276	100	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.70236	100.9171	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.70236	100.9171	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77255	105.3737	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77255	105.3737	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.735	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.7391	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	18SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.7446	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72415	113.1293	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72415	113.1293	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72687	111.3793	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72687	111.3793	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72687	114.7997	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72687	114.7997	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72316	111.9642	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72316	111.9642	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.4329	System Intact
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.4329	System Intact
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7236	112.9157	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7236	112.9779	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72599	115.5922	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72431	113.4349	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7245	113.203	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7245	113.203	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72392	113.1495	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72392	113.1495	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72334	113.3275	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72334	113.3275	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72847	109.0963	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72847	109.0963	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.8746	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.8746	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72118	111.479	'CHISHOLM7 345.00 - GRAPEVINE 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	113.434	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	113.2687	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72516	114.606	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72539	115.4823	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.67641	103.1262	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	129.632	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.6696	'CROSSROADS 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.6696	'CROSSROADS 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.73197	110.1567	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72754	111.7685	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72754	111.7685	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72535	111.5946	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72535	111.5946	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77578	118.2871	'EDDY COUNTY INTERCHANGE - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72348	112.0003	'EDDY COUNTY INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74435	111.7983	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74435	111.7983	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72371	113.1276	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72805	114.9953	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72805	116.111	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.7777	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.2088	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.8415	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.842	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.817	'GEN524894 1-SNJN-WTG15 10.6000'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.8547	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.854	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.7888	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.9129	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.051	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	110.5695	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.211	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	108.9767	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	108.9768	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	110.182	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.7515	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.754	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	107.0473	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	106.1605	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	107.3054	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	107.3054	'GEN527902 1-HOBBS PLANT #2 (CT)'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	104.9543	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.9652	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.5181	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.8855	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.4931	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.8927	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.0001	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.3175	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.3035	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.818	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.5074	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	101.5238	'GEN562942 1-G15056_3 0.6900'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	108.6841	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	110.7535	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	103.0499	'GEN587423 1-G16-062-GEN10.6900'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.2495	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.9327	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	107.3785	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	104.4548	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	110.4932	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72118	111.4919	'GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.71996	111.3902	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.71996	111.3902	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75462	111.705	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75462	111.705	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7518	122.6407	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7518	122.6407	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72332	112.0443	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72646	115.0667	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72415	113.3492	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72415	113.3492	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72283	113.4791	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72283	113.4791	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7236	112.8979	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	111.9907	'LEA COUNTY REC-PLAINS INTERCHANGE - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	111.9407	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	111.9791	'LEHMAN_TP 3115.00 - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7234	113.1389	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72367	111.9133	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72278	116.7284	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72423	113.3087	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72423	113.3087	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72383	113.6061	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7336	121.6211	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7336	121.6211	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72469	113.8279	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72319	114.1673	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72318	115.8253	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.8008	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72325	113.3948	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72398	113.4224	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72312	113.385	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7236	113.206	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72302	113.7161	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	113.3121	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7231	113.0119	''P12:115:SPS:V99.1.PLAINS.YOAKUM''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72312	113.1362	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7231	113.1694	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.9823	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.1695	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.1802	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72367	112.976	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72314	114.3882	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.5185	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7239	113.686	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	129.6386	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	129.6479	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72384	112.9345	''P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72153	112.3686	''P42:345:OKGE:SB_BVTY7315''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72431	113.4487	''P42:345:OKGE:SB_WWHV7383''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	108.3996	''P42:345:SPS:POTTER-2R05''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.0204	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.0914	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72383	113.0162	''P44:69:SPS:HUTCHISON_1834''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72309	113.8135	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.0655	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72321	113.1472	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72324	113.2529	''P44:69:SPS:TERRY_CNTY_6700''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	113.2351	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.69858	105.4946	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72255	115.5789	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72255	115.5789	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72332	113.3022	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72332	113.3022	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72333	113.3186	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72333	113.3186	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72348	111.9341	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.68091	117.3366	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.68091	117.3366	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.71899	113.586	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74468	124.9038	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74468	124.9038	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.3265	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.3265	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.3519	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.3519	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	128.3244	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79264	101.5679	'EDDY COUNTY INTERCHANGE - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77781	100.2464	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77781	100.2464	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7574	101.3859	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7574	101.3859	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	128.33	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	128.3335	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7033	103.3332	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7033	103.3332	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77447	103.0236	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77447	103.0236	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	124.476	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	124.485	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	124.492	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	2	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.6985	100.7436	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21WP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.6985	100.7436	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	26SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.317	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	26SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.3214	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	26SP	G16_123	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.3256	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04912	100.4228	System Intact
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04912	100.4228	System Intact
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04912	100.11	System Intact
FDNS	06ALL	2	21SP	G16_123	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04912	100.11	System Intact
FDNS	06ALL	2	21WP	G16_123	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.0467	102.1528	System Intact
FDNS	06ALL	2	21WP	G16_123	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.0467	102.1528	System Intact
FDNS	06ALL	2	21WP	G16_123	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.0467	101.3538	System Intact
FDNS	06ALL	2	21WP	G16_123	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.0467	101.3538	System Intact
FDNSLock-Blown up	06ALL	2	21L	G16_123		Non-Converge	0	0	0.14862	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21L	G16_123		Non-Converge	0	0	0.49127	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21L	G16_123		Non-Converge	0	0	0.84848	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	2	21SP	G16_123		Non-Converge	0	0	0.56252	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	G16_123		Non-Converge	0	0	0.17579	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21WP	G16_123		Non-Converge	0	0	0.54467	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	G16_123		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	2	21WP	G16_123		Non-Converge	0	0	0.61726	9999	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.06368	111.2135	System Intact
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.06368	111.2135	System Intact
FDNS	06ALL	0	21WP	G16_124	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.08108	101.7193	System Intact
FDNS	06ALL	0	21WP	G16_124	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.08108	101.7193	System Intact
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82213	102.8099	'ALLRED TAP - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82878	101.2505	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82878	101.2505	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82878	104.3799	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82878	104.3799	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82042	101.4313	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82042	101.4313	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.981	System Intact
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.981	System Intact
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82154	102.7685	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82154	102.8626	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82051	101.5409	'BOPCO_PKRLK3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82287	102.9226	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82287	102.9226	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82177	102.6433	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82177	102.6433	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82176	102.4568	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82176	102.4568	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	102.9786	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	102.7005	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	127.1527	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.83563	100.8798	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.83563	100.8798	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8209	101.5113	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8209	101.5113	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82163	102.5282	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82163	102.5282	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	126.6682	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	126.6682	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82528	103.5387	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82528	103.5387	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82098	102.4099	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82098	102.4099	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.83824	107.0597	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.83824	109.3351	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82174	102.5006	'GAINES COUNTY INTERCHANGE - OXY_WSEM_TP3115.00 115KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2478	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.9446	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.3118	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.3135	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.284	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2879	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2868	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2512	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.3922	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.4914	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2247	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.1895	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.1572	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.4138	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.0039	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.5348	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.5205	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.5212	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.9767	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.4009	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.8913	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.5492	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.9044	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.8292	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.4801	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.81723	102.069	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.81723	102.069	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8214	102.4174	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8214	102.4174	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82174	102.6086	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8227	103.4221	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8227	103.4221	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82213	103.0002	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.5344	'LEA COUNTY REC-PLAINS INTERCHANGE - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.4443	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.5267	'LEHMAN_TP 3115.00 - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8214	103.1803	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.2118	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.2118	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82087	101.2051	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82087	101.3791	'National Enrichment Plant Tap - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82314	104.194	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82314	100.1936	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8218	102.7269	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8218	102.7269	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82254	102.8052	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82467	103.7196	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82054	104.5513	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8206	105.4312	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82041	102.7086	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82072	102.485	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82054	103.4103	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82083	102.4345	''P12:115:SPS:T64.1.RNDALL.PULLMN''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82055	103.2625	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82243	102.9509	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82048	103.6066	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82154	103.1082	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8206	103.0784	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	102.7703	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82213	102.8808	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82046	102.7308	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82043	102.4865	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.1167	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.4895	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82065	102.6609	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.7061	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82174	102.7784	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82038	102.4973	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82051	103.4638	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.6478	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82039	102.8807	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82272	102.8872	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	127.1503	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	127.1503	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.6598	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.9449	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.9041	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	104.6487	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.7386	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82087	102.902	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82082	102.7757	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	102.6275	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82517	102.8059	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82517	102.8059	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82088	100.832	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82088	100.832	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.4032	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.4032	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82051	101.1204	'RED_BLUFF 3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8213	101.4281	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82497	102.7228	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82497	102.7228	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.77957	108.5021	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.77957	108.5021	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82144	103.2262	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82144	103.2262	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82144	103.2262	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82144	103.2262	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81936	112.4752	'ALLRED TAP - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81854	112.3072	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81854	112.3072	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82528	112.2866	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82528	112.2866	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82528	115.3177	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82528	115.3177	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81761	111.1178	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81761	111.1178	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.6394	System Intact
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.6394	System Intact
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81876	112.5203	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81876	112.6057	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81771	111.1136	'BOPCO_PKRLK3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81995	112.5796	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81995	112.5796	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81891	112.2791	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81891	112.2791	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83185	108.7016	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83185	108.7016	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84541	110.4685	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84541	110.4685	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81801	113.6932	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81807	112.8476	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81807	112.413	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78499	105.9041	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.5449	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84433	103.4998	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82992	108.3034	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82992	108.3034	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83324	109.8043	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83324	109.8043	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82111	109.1462	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82111	109.1462	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81812	111.1375	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81812	111.1375	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.309	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81883	112.2214	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81883	112.2214	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.236	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.1346	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.1404	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.1404	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.0047	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.0047	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82261	113.0021	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82261	113.0021	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83573	117.4065	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83573	119.8216	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.1532	'GAINES COUNTY INTERCHANGE - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.6838	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.2342	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.8163	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.8171	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.7842	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.8316	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.8304	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.7428	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.9151	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.5053	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.742	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.6276	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.5947	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.8926	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.8928	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.6288	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	109.862	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.3868	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.0012	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.0047	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	105.6402	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	107.925	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	105.6446	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	105.6446	'GEN527902 1-HOBBS PLANT #2 (CT)'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	102.7795	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.0278	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.5726	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.6489	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.1577	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.1421	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.1423	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.537	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.0063	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.7158	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.2811	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.0849	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.8593	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.3427	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	107.2129	'GEN587113 1-G16-015-GEN10.4180'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.2083	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	100.6541	'GEN587423 1-G16-062-GEN10.6900'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.0109	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.7119	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	105.7536	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	102.7538	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	109.4338	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81781	112.779	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81781	112.779	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81966	112.2625	'Higg Switch Station - XTO_RUSSEL 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81861	112.2546	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81861	112.2546	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.2871	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81995	113.2574	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81995	113.2574	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81936	112.8116	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81861	113.0511	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81815	110.8673	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81815	110.8673	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81808	110.8389	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81808	111.0185	'National Enrichment Plant Tap - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81972	115.47	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.5024	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.5024	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8197	112.7766	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84541	123.214	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84541	123.214	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82154	113.9609	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81774	114.0975	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8178	115.3965	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81761	112.1264	''P12:115:SPS:T24B.1.RSWLL.BRSHRF''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81789	112.1746	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81775	113.1564	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.2806	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81776	112.7604	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81966	112.8515	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81768	112.8608	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81876	112.8106	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81776	112.8544	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81807	112.5003	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81936	112.625	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81766	112.4137	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81763	112.2443	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.8444	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	113.2377	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81786	112.1805	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.4032	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.4839	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.207	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81771	113.457	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	113.2799	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81758	112.4297	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81987	112.9319	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81801	112.705	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.5443	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.5443	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	106.7474	''P42:345:SPS:POTTER-2R05''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	113.6369	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.592	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.1917	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.6556	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	114.4127	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	113.4765	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81802	112.9644	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81798	112.7555	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81807	112.3066	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81923	111.1093	'PCA INTERCHANGE - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81923	111.1093	'PCA INTERCHANGE - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82251	112.2827	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82251	112.2827	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81786	111.1851	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81786	111.1851	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79829	107.6327	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81602	112.8542	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81602	112.8542	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81771	110.6352	'RED_BLUFF 3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81837	112.1678	'ROOSEVELT COUNTY INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT @1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81856	112.223	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81856	112.223	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81859	112.2324	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81859	112.2324	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81848	111.0794	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81798	112.0992	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81798	112.0992	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81801	112.7035	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81801	112.7117	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82198	112.2643	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82198	112.2643	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77604	116.0929	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77604	116.0929	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81468	112.9277	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81421	110.9867	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81852	113.0276	'TUCO INTERCHANGE (GE_M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81852	113.0276	'TUCO INTERCHANGE (GE_M1022338) 345/230/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81852	113.0561	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81852	113.0561	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81999	104.8866	'ALLRED TAP - INK_BASIN 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82754	104.6988	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82754	104.6988	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82754	108.1119	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82754	108.1119	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81929	103.7163	'AMOCO TAP - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.6044	'ANDREWS 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.6044	'ANDREWS 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.1695	System Intact
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.1695	System Intact
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82016	104.9642	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82016	105.0773	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82143	105.057	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82143	105.057	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83337	101.7154	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83337	101.7154	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81958	105.4184	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81958	104.8142	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.6582	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8324	103.2006	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8324	103.2006	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8213	102.9078	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8213	102.9078	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8751	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8203	105.0613	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8203	105.0613	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.7623	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.7145	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82018	104.8437	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82018	104.8437	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.1757	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.1757	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82432	105.5947	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82432	105.5947	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81973	104.7003	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81973	104.7003	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81964	104.6391	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81964	104.6391	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83569	108.1244	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83569	110.2514	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.3891	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.013	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4664	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4681	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4371	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4416	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4405	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4026	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.551	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.6321	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.2141	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.8039	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.281	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.5635	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.5636	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.3196	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.4335	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.3833	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	100.1176	'GEN527166 1-MUSTANG_6 118.000'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	100.6712	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	100.675	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.8426	'GEN527881 1-CUNNINGHAM GEN #1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.6403	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.1314	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.2106	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.71	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.7025	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.7032	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.0888	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.5532	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4966	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.9989	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.6806	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.516	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.0204	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.9237	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.6087	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.3004	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.0071	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81583	104.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81583	104.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82009	102.3437	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82009	102.3437	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82009	102.315	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81921	103.709	'HOCKLEY COUNTY INTERCHANGE - LAMB COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81921	103.709	'HOCKLEY COUNTY INTERCHANGE - LAMB COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83199	107.1569	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82038	104.6295	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82129	105.5504	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82129	105.5504	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81975	103.7373	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81975	103.7373	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81929	103.6341	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81929	103.6341	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8187	103.5833	'LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8187	103.584	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8187	103.584	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82035	104.7866	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81985	105.2626	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8196	103.0463	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8196	103.0463	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82193	106.9414	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82193	102.7133	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8204	104.7101	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8204	104.7101	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82044	104.942	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82044	104.942	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82115	104.8751	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82343	107.3037	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81917	107.2614	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81924	108.43	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81905	104.845	''P12:115:SPS:T24B.1.RSWLL.BRSHRF''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81905	104.7243	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81937	104.842	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81917	105.6212	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81907	104.6166	''P12:115:SPS:T45.1.NORRIS.OASIS''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8153	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81917	105.5524	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81919	104.6299	''P12:115:SPS:T87.1.SPRMN.HANSFRD''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82099	105.0656	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81913	105.8133	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82016	105.3782	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81927	105.5392	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81958	104.9242	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81924	104.6615	''P12:115:SPS:V93.1.PNTX_N.PNTX_S''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8191	104.6152	''P12:115:SPS:V99.1.PLAINS.YOAKUM''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81909	105.0215	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81906	104.7794	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.4717	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.8946	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81912	104.8822	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.9456	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82038	104.8336	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81903	104.7919	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81902	106.1301	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.9328	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81903	105.2395	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8187	103.5836	''P12:230:SPS:K39.1.CRLSLE.MLWAKEE''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82131	104.963	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.6585	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.6585	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	106.4996	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.3334	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.8984	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.3926	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.6314	''P44:69:SPS:GRAY_CNTY_2830''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	107.068	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	106.3264	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81954	105.8596	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81948	105.5033	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81958	104.6841	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82401	104.7487	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82401	104.7487	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81959	103.0526	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81959	103.0526	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.6501	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.6501	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81989	103.7053	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81948	104.7118	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81948	104.7118	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82364	105.0825	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82364	105.0825	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77764	110.5568	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77764	110.5568	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81527	105.6194	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8937	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8937	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8937	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8937	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81975	104.7291	'WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81975	104.7291	'WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77836	120.6823	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77836	120.6823	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77836	123.5159	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77836	123.5159	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	121.6564	System Intact
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	121.6564	System Intact
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77709	122.1293	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77683	123.413	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77683	123.413	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77955	122.1626	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77955	122.1626	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78559	118.0394	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78559	118.0394	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77681	122.4518	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77681	122.3227	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80617	118.4865	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78902	122.6522	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78902	122.6522	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78006	120.6278	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78006	120.6278	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7864	123.179	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7864	123.179	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77935	122.1234	'EDDY_STH 3115.00 - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77935	122.1234	'EDDY_STH 3115.00 - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78029	123.9179	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78029	124.9763	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.5863	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.5041	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8098	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8114	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7767	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8388	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8377	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7329	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.911	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.605	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.34	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.103	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8503	'GEN526678 1-CIRRUS_WND 10.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.2038	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.2039	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.3808	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.2076	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.2098	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	106.2508	'GEN527651 1-RSVLT_WIND110.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	106.4935	'GEN527652 2-RSVLT_WIND210.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	115.5191	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	115.505	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	116.7422	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	116.7422	'GEN527902 1-HOBBS PLANT #2 (CT)'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	114.5316	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7156	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.1437	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.6929	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	121.1049	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7334	'GEN562007 1-G11-025-GEN 0.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.5473	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.0236	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.1723	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.8308	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.2003	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	109.3413	'GEN562942 1-G15056_3 0.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.049	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.4279	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	112.9369	'GEN587423 1-G16-062-GEN10.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.1013	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.1815	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	117.443	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	103.748	'GEN588003 1-G16-123-GEN10.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	103.5096	'GEN588006 1-G16-123-GEN20.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	103.5096	'GEN588013 1-G16-124-GEN10.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	112.5933	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.6807	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7189	'GEN588443 1-G16-172-GEN10.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7413	'GEN588446 1-G16-172-GEN20.6900'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78139	120.1952	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78139	120.1952	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77795	124.4886	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77909	124.0348	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77746	122.4353	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77746	122.4353	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77758	120.9761	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77758	120.9761	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77695	122.2695	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77514	125.2165	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77791	123.0907	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77746	122.9885	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7768	123.3511	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77701	122.9694	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77682	122.5056	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77736	122.5638	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77677	122.5389	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77709	122.3483	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77666	122.9276	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77681	122.3624	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77675	122.1941	''P12:115:SPS:V99.1.PLAINS.YOAKUM''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77676	122.2942	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77675	122.3639	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.2668	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.4815	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.3588	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77714	122.1337	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	123.3327	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.6607	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77801	123.1855	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	116.5486	''P42:345:SPS:POTTER-2R05''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.3263	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.2787	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.913	''P44:69:SPS:RIVERVIEW_R708''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.4485	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77677	122.2912	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7768	122.4548	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77681	122.2965	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78591	122.6439	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78591	122.6439	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77771	122.2026	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77771	122.2026	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7772	122.1548	'ROOSEVELT COUNTY INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77718	122.6951	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77718	122.6951	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7772	122.7147	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7772	122.7147	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77708	121.1911	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79409	105.691	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79409	105.691	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7961	105.9326	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7961	105.9326	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.8842	System Intact
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.8842	System Intact
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79346	104.3493	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79346	104.4383	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79467	105.4877	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79467	105.4877	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79399	104.5252	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79399	104.5252	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79549	104.4085	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79549	104.4085	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80323	101.7551	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80323	101.7551	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.3164	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.3164	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79325	104.7878	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	134.759	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81805	101.1604	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80517	104.9622	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80517	104.9622	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81259	102.371	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81259	102.371	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79575	102.2519	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79575	102.2519	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79378	104.7588	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79378	104.5751	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79378	104.5273	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	133.284	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	133.284	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8016	105.8303	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8016	105.8303	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79404	104.5501	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79404	104.5501	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79392	104.4762	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79392	104.4762	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79747	105.3359	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79747	106.3391	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1211	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.7517	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1601	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.161	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1329	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1772	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1763	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.098	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.2403	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.9929	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.4885	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.125	'GEN525844 1-ELK_1 118.000'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1659	'GEN525845 1-ELK_2 1 18.000'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.7321	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.3146	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.314	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.0337	'GEN526333 1-JONES GEN #3 21 KV'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.0212	'GEN526334 1-JONES_4 116.500'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7009	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7009	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.4983	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.8368	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7582	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.7497	'GEN527166 1-MUSTANG_6 118.000'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.7861	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.7878	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.3071	'GEN527881 1-CUNNINGHAM GEN #1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.8532	'GEN527883 1-CUNNINGHAM GEN #3 22 KV'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.0968	'GEN527884 1-CUNNINGHAM GEN #4 22 KV'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.0767	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7166	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.0447	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.6885	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.8744	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.5417	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7161	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.8108	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.7661	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.4784	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.4835	'GEN587473 1-G16-069-GEN10.5500'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.788	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.2306	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.2583	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79791	100.5038	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79791	100.5038	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80858	106.8647	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80858	106.8647	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79551	106.5919	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79657	104.9925	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79389	104.6462	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79389	104.6462	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79385	102.7528	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79385	102.7528	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79272	103.408	'LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79272	103.4032	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79272	103.4032	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79334	104.5857	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79316	103.4089	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79316	103.4089	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79326	105.7781	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79326	102.884	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79424	106.0067	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79424	106.0067	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79446	104.3965	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.0713	'OKLAUN HVDC7345.00 - OKLAUNION 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.0703	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7947	105.7898	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79309	106.2986	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79312	107.274	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.7935	''P12:115:SPS:T26.1.CHAVES.RSWLCTY''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79305	104.3992	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79317	104.3324	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79327	104.9713	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79378	104.5848	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79307	104.8012	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79373	104.4264	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79307	105.0883	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79346	104.7277	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79311	104.8737	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79325	104.3201	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79306	104.496	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.3773	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.8104	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.1636	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79305	104.4457	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.4127	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7931	104.4006	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.1764	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.072	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79304	104.8539	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79272	103.4063	''P12:230:SPS:K39.1.CRLSLE.MLWAKEE''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79457	104.4754	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	134.7586	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	134.7586	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.4975	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.7136	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.4994	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.9275	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.3021	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.4703	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79323	105.0841	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79321	104.8198	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79929	103.1652	'PECOS INTERCHANGE - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79929	103.1652	'PECOS INTERCHANGE - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80096	104.7566	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80096	104.7566	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79297	103.1263	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79297	103.1263	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79393	104.4663	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79393	104.4663	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79357	105.0249	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79357	105.0249	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75297	114.4015	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75297	114.4015	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78916	105.6272	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80985	109.6921	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80985	109.6921	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79285	100	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79285	100	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79285	102.555	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79285	102.555	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.2309	System Intact
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.2309	System Intact
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79041	101.7019	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	101.8609	'CARGILL SUB - DEAF SMITH REC-#24 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79251	101.8018	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79251	101.8018	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.7371	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.7371	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	102.3545	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	101.9089	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.80213	101.8649	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.80213	101.8649	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79282	100	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79282	100	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	102.1775	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	102.0773	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	101.9958	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79875	103.5221	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79875	103.5221	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79103	101.7958	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79103	101.7958	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79091	101.7301	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79091	101.7301	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79231	101.745	'EDDY_STH 3115.00 - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79231	101.745	'EDDY_STH 3115.00 - PECOS INTERCHANGE 115KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79422	102.6134	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79422	103.7389	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2731	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2802	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2362	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2502	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2488	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2053	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.4037	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.1233	'GEN526678 1-CIRRUS_WND 10.6900'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.6921	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.1064	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.0842	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.5581	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100	'GEN562007 1-G11-025-GEN 0.6900'
FDNSLock	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79326	102.6771	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79082	101.9075	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79082	101.9075	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79082	100.2052	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79082	100.2052	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	100.795	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79028	101.8844	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79008	102.431	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79141	101.7546	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.80824	108.0622	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.80824	108.0622	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.9954	''P12:115:SPS:T26.1.CHAVES.RSWLCTY''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79002	102.1409	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79024	102.7219	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	102.0422	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79115	101.7319	''P12:115:SPS:T64.1.RNDALL.PULLMN''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79005	102.4995	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79067	101.733	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79004	102.7731	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79041	102.1392	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNSLock	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79005	101.9212	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	101.9939	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79018	101.8247	''P12:115:SPS:V93.1.PNTX_N.PNTX_S''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79003	102.2919	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79001	101.923	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.3708	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.9532	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79002	102.2211	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.8781	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79007	101.8248	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.8081	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79001	102.2969	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79152	101.882	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.7929	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.3322	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.8825	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.2802	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	103.0404	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	103.218	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79017	102.4015	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79016	102.2184	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	101.956	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7981	102.5984	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7981	102.5984	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.78983	100.5261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.78983	100.5261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7909	101.8843	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7909	101.8843	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79046	100.793	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.78683	101.9657	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	26SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.9101	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	26SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.4052	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	26SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.4052	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	26SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.9101	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	26SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.9101	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	21SP	G16_124	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.06793	100.2876	System Intact
FDNS	06ALL	0	21SP	G16_124	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.06793	100.2876	System Intact
FDNS	06ALL	0	18G	G16_124	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07318	113.3	System Intact
FDNS	06ALL	0	18G	G16_124	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07318	113.3	System Intact
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.05264	143.02	System Intact
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.05264	143.02	System Intact
FDNS	06ALL	0	21SP	G16_124	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07123	109.3228	System Intact
FDNS	06ALL	0	21SP	G16_124	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07123	109.3228	System Intact
FDNS	06ALL	0	21WP	G16_124	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.06677	125.0648	System Intact
FDNS	06ALL	0	21WP	G16_124	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.06677	125.0648	System Intact
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05397	100	System Intact
FDNS	06ALL	0	21L	G16_124	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05397	100	System Intact

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	104.4953	'3491-MOORE COUNTY INTERCHANGE W.'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	105.4916	'ALTUS JUNCTION - RUSSELL 138KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	105.4916	'ALTUS JUNCTION - RUSSELL 138KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.2788	'AMOCO TAP - CHILDRESS 69KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.8844	'ARNEGARD-MK7115.00 - EASTHYBT-MK7115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20059	103.941	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20059	103.941	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	104.4953	System Intact
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	104.4953	System Intact
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.6995	'BLACKHAWK STATION S. - QUENCH-RYTON TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	108.687	'BOWERS INTERCHANGE - Graves Sub 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	108.687	'BOWERS INTERCHANGE - Graves Sub 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	106.503	'BOWERS INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20089	103.9291	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20089	103.9291	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20228	105.2669	'CACHE - SNYDER 138KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20229	107.1118	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20229	107.1118	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	109.7545	'CHAN+TASCOS6230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	109.7545	'CHAN+TASCOS6230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.7391	'CHAN+TASCOS6230.00 - XIT_INTG 6230.00 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20405	104.6099	'CHERRY1 - HARRINGTON STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20405	104.6099	'CHERRY1 - HARRINGTON STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20481	106.2497	'CHERRY1 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20481	106.2497	'CHERRY1 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.2175	'CHILDRESS - HOLLIS TAP 138KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.2316	'CHILDRESS (CHLDR2WT) 138/69/12.47KV TRANSFORMER CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.2316	'CHILDRESS (CHLDR2WT) 138/69/12.47KV TRANSFORMER CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.6976	'CLARENDON - CLARENDON REC 69KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7384	'CLARENDON - HWRDWCK2 69.000 69KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.6079	'CLARENDON REC - HEDLEY 69KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20286	105.6394	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20286	105.6394	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20351	105.9599	'DALLAM COUNTY INTERCHANGE - SHERMAN COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.3139	'DALLAM COUNTY INTERCHANGE - XIT_INTG 3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.3139	'DALLAM COUNTY INTERCHANGE - XIT_INTG 3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	105.6827	'DUMAS SUB - EXELL TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	105.1654	'DUMAS SUB - RB-S&S 3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20222	106.3214	'EAST LIBERAL - TEXAS COUNTY INTERCHANGE PHASE SHIFT TFMR 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	106.3214	'EAST LIBERAL - TEXAS COUNTY INTERCHANGE PHASE SHIFT TFMR 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.9236	'EASTHYBT-MK7115.00 - LSSSW_SOUTH7115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	106.0359	'EXELL TAP - FAIN SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	106.1285	'FAIN SUB - NICHOLS STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.19912	104.8227	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.19912	104.8227	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.1043	'GEN522866 1-LUBBOCK POWER & LIGHT-HOLLY GEN'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.3403	'GEN523277 1-VALERO SUB'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.3571	'GEN523461 1-BLACKHAWK GEN #1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.3569	'GEN523462 1-BLACKHAWK GEN #2'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.8696	'GEN524022 1-NICHOLS GEN #2'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0207	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.4773	'GEN524491 1-TUCUMCARI GEN'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.3329	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.3386	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.2869	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.272	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.2699	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.2311	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.4744	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.4643	'GEN525910 1-PLSNTHLLWND10.6900'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.3332	'GEN526678 1-CIRRUS_WND 10.6900'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.2529	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0915	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0948	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.8446	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.0657	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0536	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	104.8636	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	106.2832	'GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.3797	'GEN542962 2-IATAN UNIT #2'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.0562	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.6869	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.7613	'GEN560759 1-ASGI13_02_3 0.6900'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.5773	'GEN560762 1-ASGI13_03_3 0.6900'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.5323	'GEN562007 1-G11-025-GEN 0.6900'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.5512	'GEN562325 1-ASGI_12_02_30.6900'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	102.9765	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	102.8932	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0593	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.7332	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.3522	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.1628	'GEN640009 1-COOPER NUCLEAR STATION'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.174	'GEN640011 2-GERALD GENTLEMAN STATION UNIT 2'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.1369	'GEN645012 2-NEBRASKA CITY 2'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.1717	'GEN659118 1-LARAMIE RIVER UNIT1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	106.4779	'Graves Sub - STATELINE INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	106.4779	'Graves Sub - STATELINE INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20227	105.2391	'GRAY COUNTY INTERCHANGE - HUTCHINSON COUNTY INTERCHANGE S. 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20227	105.2358	'GRAY COUNTY INTERCHANGE (WH RHP17221) 115/69/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20227	105.2358	'GRAY COUNTY INTERCHANGE (WH RHP17221) 115/69/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20473	105.5769	'Harrington Station East Bus - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20473	105.5769	'Harrington Station East Bus - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20476	108.96	'Harrington Station East Bus - PRINGLE INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.6141	'HEDLEY - NORTH MEMPHIS REC 69KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20243	105.5842	'HERRING TAP - RITA BLANCA REC-SNEED 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20243	105.6251	'HERRING TAP - RIVERVIEW INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20345	105.5156	'HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20345	105.5156	'HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20599	107.738	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20599	107.738	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20354	105.4032	'HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20354	105.4032	'HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20708	109.1618	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20708	109.1618	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20354	105.4032	'HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20354	105.4032	'HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.5383	'HOLLIS TAP - WELLINGTON 138KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20364	105.7459	'HUTCHINSON COUNTY INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20364	105.7459	'HUTCHINSON COUNTY INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7753	'HWRDWCK2 69.000 - JERICHO 69KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7761	'JERICHO - KIRBY SWITCHING STATION 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7761	'JERICHO - KIRBY SWITCHING STATION 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7661	'JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7661	'JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20308	105.2712	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20308	105.2712	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20308	105.1609	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2026	105.988	'KINGSMILL INTERCHANGE - LLANO ESTACADO WIND GEN 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	107.1747	'KINGSMILL INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.7399	'KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20297	106.9843	'LAKE PAULINE - RUSSELL 138KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20297	106.9843	'LAKE PAULINE - RUSSELL 138KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.9032	'LAMAR - LSSSW_SOUTH7115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.9032	'LAMAR 115/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2026	105.7141	'LLANO ESTACADO WIND GEN - MIDSTREAM ENERGY TAP 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.7085	'MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.338	'MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.338	'MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.571	'MEMPHIS - NW MEMPHIS 69KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2026	106.1201	'MIDSTREAM ENERGY TAP - NICHOLS STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2034	106.3075	'MOORE COUNTY INTERCHANGE EAST BUS - RB-SPURLCK+3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	104.9876	'MOORE COUNTY INTERCHANGE W. - RB-S&S 3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20243	105.3435	'MOORE COUNTY INTERCHANGE W. - RITA BLANCA REC-SNEED 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.4417	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.4029	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.5717	'NORTH MEMPHIS REC - NW MEMPHIS 69KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2041	108.0604	'OCHILTREE - TEXAS FARMS SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20345	105.2606	'OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20345	105.2606	'OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	105.0831	''P12:115:SPS:T27.1.NICHLS.DUMAS19''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	105.6511	''P12:115:SPS:T28A.1.LAMTON.PLANTX''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.2047	''P12:115:SPS:T51.1.BOWERS.GRAPE''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	109.1277	''P12:115:SPS:T56.2.DC_S.MUSTG''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20243	105.21	''P12:115:SPS:V03.1.NICHLS.EPLANT''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2026	106.2875	''P12:115:SPS:V32.1.TXSCO.ELB(534)''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20227	105.2481	''P12:115:SPS:V37.1.CASTRO.PLANTX''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20351	105.7457	''P12:115:SPS:W07.1.HITCH.TXSCO''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2034	106.1218	''P12:115:SPS:W26.1.CUNGHM.OILCNTR''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2041	107.7513	''P12:115:SPS:W31.1.OASIS.PRMTR''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	109.1277	''P12:115:SPS-AEPW:KIRBY3:SHAM3WT''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.9628	''P12:115:UMZS:# 118 #: PAS IN SD. LINE FAULT BTWN ASH ST-EVANS ST''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20228	105.2665	''P12:138:AEPW:112GORE4:SNYDER-4''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.6605	''P12:138:AEPW:SHAM4WT:CHILD4WT''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20476	108.9526	''P12:230:SPS:K45.2.PLANTX.TOLK''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.6758	''P12:345:SPS:J01.1.TUCO.OKU(520)''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.0188	''P12:69:AEPW:CHLDR2WT:MEMPHIS2''
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7856	''P12:69:AEPW:JERICWT:CLARDON2''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.0695	''P12:69:AEPW:NWMEMPH2:CHLDR2WT''
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7374	''P12:69:AEPW:NWMEMPH2:CLARDON2''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20708	109.1618	''P22:345:SPS:ROADRUNNER_21S''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20504	107.6842	''P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20286	105.2393	''P23:345:AEPW:PITTSBURG CB 3425A NBTB''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20304	105.3928	''P23:345:AEPW:PITTSBURG CB 3429A NBTB''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20308	105.2732	''P23:345:AEPW:PITTSBURG CB 3433A NBTB''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20089	104.1649	''P23:345:SUNC:HLC_BRK182''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20087	104.2271	''P23:345:SUNC:HLC_BRK282''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.19942	104.3641	''P23:345:SUNC:MG_BRKXX''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20085	104.2354	''P23:345:SUNC:SV_BRK782''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20326	105.5042	''P42:345:OKGE:SB_JOCO7313''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20326	105.0828	''P42:345:OKGE:SB_JOCO7383''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	105.1709	''P44:69:SPS:CASTRO_CNTY_9734_6G20''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.9516	''P44:69:SPS:TC-TXCOUNTY_XXXX''
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.2303	'PRINGLE INTERCHANGE - QUENCH-RYTON TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20313	106.0222	'PRINGLE INTERCHANGE - RIVERVIEW INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20313	106.0222	'PRINGLE INTERCHANGE - RIVERVIEW INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20358	107.7607	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20358	107.7607	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20476	108.4523	'PRINGLE INTERCHANGE (ENRCO13617-1) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20476	108.4523	'PRINGLE INTERCHANGE (ENRCO13617-1) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2034	106.2208	'RB-ELKS 3115.00 - RB-SPURLCK+3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2034	106.1305	'RB-ELKS 3115.00 - SHERMAN COUNTY TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.3699	'SHAMROCK - WELLINGTON 138KV CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.2715	'SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1'
FDNSLock	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.2715	'SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.5703	'SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.5703	'SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20351	105.7817	'SHERMAN COUNTY SUB - SHERMAN COUNTY TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2041	108.5795	'SPEARMAN INTERCHANGE - SPEARMAN SUB 115KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2041	108.3085	'SPEARMAN SUB - TEXAS FARMS SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	106.564	'STATELINE INTERCHANGE (H TP80154301) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	106.564	'STATELINE INTERCHANGE (H TP80154301) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20097	106.0795	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20097	106.0795	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	106.3218	'TEXAS COUNTY INTERCHANGE - TEXAS COUNTY INTERCHANGE PHASE SHIFT TFMR 115KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20432	106.9395	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20432	106.9395	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.2946	'XIT_INTG 6230.00 (SIEM_T126401) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.2946	'XIT_INTG 6230.00 (SIEM_T126401) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.04867	103.1502	System Intact
FDNS	06ALL	0	21L	G16_124	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.04867	103.1502	System Intact
FDNSLock-Blown up	06ALL	0	17WP	G16_124		Non-Converge	1793	1793	0.18841	26.44219	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_124		Non-Converge	1022	1143	0.2266	59.59728	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_124		Non-Converge	740.37	740.37	0.82037	101.981	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_124		Non-Converge	318.69	318.69	0.05302	44.80788	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_124		Non-Converge	318.69	318.69	0.05302	44.80788	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_124		Non-Converge	0	0	1.00842	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	17WP	G16_124		Non-Converge	0	0	0.24703	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNSLock-Blown up	06ALL	0	17WP	G16_124		Non-Converge	0	0	0.53519	9999	"P42:345:SPS:TUCO-1XXX"
FDNSLock-Blown up	06ALL	0	17WP	G16_124		Non-Converge	0	0	2	9999	"P44:69:SPS:ARTESIA_4740"
FDNSLock-Blown up	06ALL	0	17WP	G16_124		Non-Converge	0	0	0.72686	9999	"P44:69:SPS:BAILYCO_8860"
FDNSLock-Blown up	06ALL	0	18G	G16_124		Non-Converge	1793	1793	0.18235	31.21747	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_124		Non-Converge	1022	1143	0.22033	68.00926	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_124		Non-Converge	717.06	717.06	0.81757	111.6394	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_124		Non-Converge	956.09	956.09	0.241	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_124		Non-Converge	956.09	956.09	0.241	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_124		Non-Converge	0	0	1.12537	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	18G	G16_124		Non-Converge	0	0	0.23961	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNSLock-Blown up	06ALL	0	18G	G16_124		Non-Converge	0	0	0.25368	9999	"P42:345:OKGE:SB_BVTY7315"
FDNSLock-Blown up	06ALL	0	18G	G16_124		Non-Converge	0	0	0.52136	9999	"P42:345:SPS:TUCO-1XXX"
FDNSLock-Blown up	06ALL	0	18G	G16_124		Non-Converge	0	0	2	9999	"P44:69:SPS:ARTESIA_4740"
FDNSLock-Blown up	06ALL	0	18G	G16_124		Non-Converge	0	0	0.85309	9999	"P44:69:SPS:BAILYCO_8860"
FDNSLock-Blown up	06ALL	0	18SP	G16_124		Non-Converge	1793	1793	0.18859	29.57274	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_124		Non-Converge	956	1042	0.21907	61.96857	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_124		Non-Converge	717.06	717.06	0.81901	104.1695	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_124		Non-Converge	318.69	318.69	0.05259	44.02533	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_124		Non-Converge	318.69	318.69	0.05259	44.02533	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_124		Non-Converge	0	0	1.27604	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	18SP	G16_124		Non-Converge	0	0	0.23991	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNSLock-Blown up	06ALL	0	18SP	G16_124		Non-Converge	0	0	0.53629	9999	"P42:345:SPS:TUCO-1XXX"
FDNSLock-Blown up	06ALL	0	18SP	G16_124		Non-Converge	0	0	2	9999	"P44:69:SPS:ARTESIA_4740"
FDNSLock-Blown up	06ALL	0	18SP	G16_124		Non-Converge	0	0	0.96091	9999	"P44:69:SPS:BAILYCO_8860"
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	500.8	556.5	0.05816	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	500.8	556.5	0.05816	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	1793	1793	0.15773	42.62265	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	1793	1793	0.12316	29.83855	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	478	502	0.07072	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	478	502	0.07072	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	318.69	318.69	0.05864	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	318.69	318.69	0.05864	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	1195	1195	0.07635	32.97946	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	478.04	478.04	0.03615	11.44848	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	478.04	478.04	0.03615	11.44848	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	439	439	0.03152	59.82893	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	421	439	0.06368	111.2135	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	1793	1793	0.06673	22.60611	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	675	743	0.03216	30.2285	'CHISHOLM7 345.00 () 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	1022	1143	0.18026	85.48402	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	717.06	717.06	0.22326	15.59045	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	717.06	717.06	0.77674	121.6564	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	515	558	0.22326	18.4564	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	515	558	0.22326	18.4564	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	287	316	0.03152	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	287	316	0.03152	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	956.09	956.09	0.08459	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	956.09	956.09	0.08459	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	956.1	1051.7	0.08459	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	956.1	1051.7	0.08459	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	1793	1793	0.06673	23.6207	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	717	789	0.06012	46.87057	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	1195	1195	0.11721	36.51713	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	318.69	318.69	0.05264	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	318.69	318.69	0.05264	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	433	500	0.05397	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	433	500	0.05397	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	497.16	546.96	0.05348	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	497.16	546.96	0.05348	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	956.09	956.09	0.20226	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	956.09	956.09	0.20226	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	956.1	1051.7	0.09982	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	956.1	1051.7	0.09982	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	1792	1792	0.05975	13.85183	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	1792	1792	0.05975	13.85183	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	318.69	318.69	0.04867	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	318.69	318.69	0.04867	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	375.26	412.71	0.0578	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	375.26	412.71	0.0578	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	318.69	318.69	0.03615	60.71251	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	318.69	318.69	0.03615	60.71251	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.12736	9999	"P12:230:SPS:K76.1.HITCH.OCLTRE"
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.44652	9999	"P12:345:SPS:J17.1.TUCO.YOAKUM"
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	1.12268	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.19513	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.11514	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.13949	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.08459	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.12634	9999	''P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.20268	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.10134	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.11721	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.11721	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.11721	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.11721	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.11247	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.08459	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.46347	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	0	0	0.89568	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	1195	1195	0.2612	48.61858	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	504	555	0.06368	96.02361	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	504	555	0.06368	95.71223	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	1792	1792	0.04743	17.74159	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_124		Non-Converge	1792	1792	0.04743	17.74159	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	1793	1793	0.18992	37.78229	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	1793	1793	0.14899	28.82343	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	353	353	0.08633	86.61529	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	956	1042	0.21939	76.05145	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	717.06	717.06	0.79303	103.8842	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	318.69	389	0.06793	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	318.69	389	0.06793	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	318.69	318.69	0.07123	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	318.69	318.69	0.07123	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	433	500	0.07314	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	433	500	0.07314	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	956.09	956.09	0.24662	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	956.09	956.09	0.24662	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	318.69	318.69	0.06227	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	318.69	318.69	0.06227	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	318.69	318.69	0.04251	42.68379	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	318.69	318.69	0.04251	42.68379	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	0	0	0.17267	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	0	0	1.17497	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	0	0	0.24049	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	0	0	0.10852	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	0	0	0.15779	9999	''P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	0	0	0.2537	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	0	0	0.16326	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	0	0	0.10852	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	0	0	0.52522	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	0	0	0.90078	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	1195	1195	0.27861	56.72121	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	504	555	0.08633	48.59974	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_124		Non-Converge	504	555	0.08633	48.27787	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	500.8	556.5	0.05864	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	500.8	556.5	0.05864	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1793	1793	0.18131	41.74516	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1793	1793	0.14221	29.26695	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1793	1793	0.18131	41.74516	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	557	557	0.07248	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	557	557	0.07248	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	318.69	318.69	0.06124	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	318.69	318.69	0.06124	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	557	557	0.07248	46.1797	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1195	1195	0.09162	33.5474	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1792	1792	0.12063	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1792	1792	0.12063	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1792	1792	0.12063	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1792	1792	0.12063	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	439	439	0.03932	63.4582	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	421	439	0.08108	101.7193	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1793	1793	0.08086	21.23961	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	956	956	0.12617	62.35377	'CIMARRON - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1022	1143	0.20927	81.02731	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1195	1195	0.28705	38.97808	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	740.37	740.37	0.21	29.78283	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	740.37	740.37	0.79	101.2309	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	329.05	389	0.0657	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	329.05	389	0.0657	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	329.05	389	0.0657	77.71954	'DEAF SMITH COUNTY INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	558	558	0.21	37.52913	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	558	558	0.21	37.52913	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	956.09	956.09	0.10316	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	956.09	956.09	0.10316	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	987.2	1082.8	0.10316	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	987.2	1082.8	0.10316	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1793	1793	0.08086	23.59854	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	717	789	0.06395	40.22197	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1195	1195	0.12617	41.01586	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	345.78	345.78	0.06677	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	345.78	345.78	0.06677	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	500	556	0.06866	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	500	556	0.06866	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	552.14	607.51	0.06669	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	552.14	607.51	0.06669	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1036.76	1036.76	0.23533	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1036.76	1036.76	0.23533	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	987.2	1082.8	0.12173	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	987.2	1082.8	0.12173	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1792	1792	0.07617	7.996662	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1792	1792	0.07617	7.996662	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1195	1195	0.11183	50.44144	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	329.05	329.05	0.05884	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	329.05	329.05	0.05884	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	449.76	494.77	0.06014	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	449.76	494.77	0.06014	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.03989	9999	''P12:230:SPS:K45.2.PLANTX.TOLK''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.16215	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.03237	9999	''P12:345:SPS:J01.1.TUCO.OKU(520)''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.42	9999	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.88733	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.08411	9999	'P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.22942	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.13672	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.16955	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.10316	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_2SS''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.14963	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.24125	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.12063	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.12063	9999	''P42:345:OKGE:SB_BVTY7385''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_MICO7301''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.15607	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.10316	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.50739	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	0	0	0.63992	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1195	1195	0.27206	54.77373	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	560.9	617	0.08108	66.37998	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	560.9	617	0.08108	66.11691	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1195	1195	0.11183	57.37275	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	318.69	318.69	0.04958	60.80061	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	318.69	318.69	0.04958	60.80061	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1792	1792	0.07289	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_124		Non-Converge	1792	1792	0.07289	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_124		Non-Converge	717.06	717.06	0.79432	85.52613	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_124		Non-Converge	318.69	318.69	0.04294	29.08259	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_124		Non-Converge	318.69	318.69	0.04294	29.08259	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_124		Non-Converge	0	0	0.92018	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	26SP	G16_124		Non-Converge	0	0	0.64297	9999	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	18G	G16_124	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.2661	103.6849	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.21318	101.9113	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24937	105.8431	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24937	111.1664	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_124	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.23754	114.9962	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_124	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.23754	120.3499	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	129.2377	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	129.5162	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	129.7111	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	133.9565	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.3836	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.8399	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.0469	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.2899	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.807	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	135.549	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	137.5301	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.369	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.7823	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	135.3875	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	129.935	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	130.7562	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	26SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.1565	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	26SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.3254	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	26SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.951	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	123.1685	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	123.172	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	17WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	123.1777	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.8945	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79155	104.0045	'EDDY COUNTY INTERCHANGE - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74919	100.7726	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77637	104.78	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77637	104.78	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74444	100.7165	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75571	104.8104	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75571	104.8104	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74288	100.9209	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.8992	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.9035	''P22:345:SPS:HITCHLAND_AT2''
FDNSLock	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74559	100.5421	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74276	100	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.70236	100.9171	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.70236	100.9171	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77255	105.3737	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77255	105.3737	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.735	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.7391	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	18SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.7446	''P22:345:SPS:HITCHLAND_AT2''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72415	113.1293	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72415	113.1293	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72687	111.3793	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72687	111.3793	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72687	114.7997	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72687	114.7997	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72316	111.9642	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72316	111.9642	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.4329	System Intact
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.4329	System Intact
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7236	112.9157	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7236	112.9779	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72599	115.5922	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72431	113.4349	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7245	113.203	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7245	113.203	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72392	113.1495	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72392	113.1495	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72334	113.3275	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72334	113.3275	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72847	109.0963	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72847	109.0963	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.8746	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.8746	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72118	111.479	'CHISHOLM7 345.00 - GRAPEVINE 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	113.434	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	113.2687	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72516	114.606	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72539	115.4823	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.67641	103.1262	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	129.632	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.6696	'CROSSROADS 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.6696	'CROSSROADS 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.73197	110.1567	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72754	111.7685	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72754	111.7685	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72535	111.5946	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72535	111.5946	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77578	118.2871	'EDDY COUNTY INTERCHANGE - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72348	112.0003	'EDDY COUNTY INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74435	111.7983	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74435	111.7983	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72371	113.1276	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72805	114.9953	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72805	116.111	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.7777	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.2088	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.8415	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.842	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.817	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.8547	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.854	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.7888	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.9129	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.051	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	110.5695	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.211	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	108.9767	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	108.9768	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	110.182	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.7515	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.754	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	107.0473	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	106.1605	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	107.3054	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	107.3054	'GEN527902 1-HOBBS PLANT #2 (CT)'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	104.9543	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.9652	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.5181	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.8855	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.4931	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.8927	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.0001	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.3175	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.3035	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.818	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.5074	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	101.5238	'GEN562942 1-G15056_3 0.6900'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	108.6841	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	110.7535	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	103.0499	'GEN587423 1-G16-062-GEN10.6900'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.2495	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.9327	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	107.3785	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	104.4548	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	110.4932	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72118	111.4919	'GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.71996	111.3902	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.71996	111.3902	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75462	111.705	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75462	111.705	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7518	122.6407	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7518	122.6407	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72332	112.0443	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72646	115.0667	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72415	113.3492	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72415	113.3492	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72283	113.4791	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72283	113.4791	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7236	112.8979	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	111.9907	'LEA COUNTY REC-PLAINS INTERCHANGE - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	111.9407	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	111.9791	'LEHMAN_TP 3115.00 - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7234	113.1389	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72367	111.9133	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72278	116.7284	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72423	113.3087	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72423	113.3087	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72383	113.6061	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7336	121.6211	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7336	121.6211	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72469	113.8279	"P11:115:533:PRATT_P2:1:539687(P2)"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72319	114.1673	"P12:115:SPS:T19.1.TERRY.SULPHUR"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72318	115.8253	"P12:115:SPS:T20.1.SEGRVS.SULPHUR"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.8008	"P12:115:SPS:T42.1.WHOBBS.MADDOX"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72325	113.3948	"P12:115:SPS:T86.1.AMASTH.SPGDRW"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72398	113.4224	"P12:115:SPS:T93.1.HUTCH.MARTIN"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72312	113.385	"P12:115:SPS:T99.1.LEA_NA.HOBBG"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7236	113.206	"P12:115:SPS:U02.1.PORTA.GREYHND"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72302	113.7161	"P12:115:SPS:V51.1.HERFRD.DFSMTH"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	113.3121	"P12:115:SPS:V61.1.PCA.CRLBAD"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7231	113.0119	"P12:115:SPS:V99.1.PLAINS.YOAKUM"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72312	113.1362	"P12:115:SPS:W01.1.CARSON.MARTIN"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7231	113.1694	"P12:115:SPS:W13.1.SMINLE.ROZ"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.9823	"P12:115:SPS:W24.1.MOOREE.LASLEY"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.1695	"P12:115:SPS:W25.1.PECOS.OCOTILLO"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.1802	"P12:115:SPS:W36.1.TAYLOR.JNSDRW"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72367	112.976	"P12:115:SPS:W38.1.RDBLUFF.WIPP"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72314	114.3882	"P12:115:SPS:W41.2.HERFRD.DFSMTH"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.5185	"P12:115:SPS:W76.1.QUAHA.PCA"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7239	113.686	"P12:230:SPS:K53.1.NICHLS.GRAPE"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	129.6386	"P12:345:SPS:J17.1.TUCO.YOAKUM"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	129.6479	"P22:345:SPS:HITCHLAND_AT2"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72384	112.9345	"P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72153	112.3686	"P42:345:OKGE:SB_BVTY7315"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72431	113.4487	"P42:345:OKGE:SB_WWHV7383"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	108.3996	"P42:345:SPS:POTTER-2R05"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.0204	"P44:69:SPS:BOARDMAN_8845"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.0914	"P44:69:SPS:CARLISLE_6885"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72383	113.0162	"P44:69:SPS:HUTCHISON_1834"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72309	113.8135	"P44:69:SPS:RIVERVIEW_R708"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.0655	"P44:69:SPS:SPEARMAN_1740_1755"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72321	113.1472	"P44:69:SPS:SULPHUR_6F25"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72324	113.2529	"P44:69:SPS:TERRY_CNTY_6700"
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	113.2351	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.69858	105.4946	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72255	115.5789	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72255	115.5789	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72332	113.3022	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72332	113.3022	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72333	113.3186	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72333	113.3186	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72348	111.9341	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.68091	117.3366	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.68091	117.3366	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.71899	113.586	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74468	124.9038	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74468	124.9038	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.3265	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.3265	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.3519	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.3519	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	128.3244	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79264	101.5679	'EDDY COUNTY INTERCHANGE - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77781	100.2464	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77781	100.2464	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7574	101.3859	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7574	101.3859	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	128.33	"P12:345:SPS:J17.1.TUCO.YOAKUM"
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	128.3335	"P22:345:SPS:HITCHLAND_AT2"
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7033	103.3332	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7033	103.3332	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77447	103.0236	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77447	103.0236	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	124.476	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	124.485	"P12:345:SPS:J17.1.TUCO.YOAKUM"
FDNS	06ALL	2	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	124.492	"P22:345:SPS:HITCHLAND_AT2"
FDNS	06ALL	2	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.6985	100.7436	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21WP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.6985	100.7436	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	26SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.317	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	26SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.3214	"P12:345:SPS:J17.1.TUCO.YOAKUM"
FDNS	06ALL	2	26SP	G16_124	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.3256	"P22:345:SPS:HITCHLAND_AT2"
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04912	100.4228	System Intact
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04912	100.4228	System Intact
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04912	100.11	System Intact
FDNS	06ALL	2	21SP	G16_124	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04912	100.11	System Intact
FDNS	06ALL	2	21WP	G16_124	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.0467	102.1528	System Intact
FDNS	06ALL	2	21WP	G16_124	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.0467	102.1528	System Intact

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	21WP	G16_124	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.0467	101.3538	System Intact
FDNS	06ALL	2	21WP	G16_124	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.0467	101.3538	System Intact
FDNSLock-Blown up	06ALL	2	21L	G16_124		Non-Converge	0	0	0.14862	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21L	G16_124		Non-Converge	0	0	0.49127	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21L	G16_124		Non-Converge	0	0	0.84848	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	2	21SP	G16_124		Non-Converge	0	0	0.56252	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	G16_124		Non-Converge	0	0	0.17579	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21WP	G16_124		Non-Converge	0	0	0.54467	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	G16_124		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	2	21WP	G16_124		Non-Converge	0	0	0.61726	9999	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.06368	111.2135	System Intact
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.06368	111.2135	System Intact
FDNS	06ALL	0	21WP	G16_125	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.08108	101.7193	System Intact
FDNS	06ALL	0	21WP	G16_125	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.08108	101.7193	System Intact
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82213	102.8099	'ALLRED TAP - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82878	101.2505	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82878	101.2505	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82878	104.3799	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82878	104.3799	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82042	101.4313	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82042	101.4313	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.981	System Intact
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.981	System Intact
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82154	102.7685	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82154	102.8626	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82051	101.5409	'BOPCO_PKRLK3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82287	102.9226	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82287	102.9226	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82177	102.6433	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82177	102.6433	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82176	102.4568	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82176	102.4568	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	102.9786	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	102.7005	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	127.1527	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.83563	100.8798	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.83563	100.8798	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8209	101.5113	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8209	101.5113	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82163	102.5282	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82163	102.5282	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	126.6682	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	126.6682	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82528	103.5387	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82528	103.5387	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82098	102.4099	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82098	102.4099	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.83824	107.0597	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.83824	109.3351	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82174	102.5006	'GAINES COUNTY INTERCHANGE - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2478	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.9446	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.3118	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.3135	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.284	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2879	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2868	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2512	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.3922	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.4914	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.2247	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.1895	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.1572	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.4138	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.0039	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.5348	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.5205	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.5212	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.9767	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	101.4009	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.8913	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.5492	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.9044	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.8292	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100.4801	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	100	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.81723	102.069	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.81723	102.069	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8214	102.4174	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8214	102.4174	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82174	102.6086	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8227	103.4221	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8227	103.4221	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82213	103.0002	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.5344	'LEA COUNTY REC-PLAINS INTERCHANGE - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.4443	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.5267	'LEHMAN_TP 3115.00 - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8214	103.1803	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.2118	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	101.2118	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82087	101.2051	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82087	101.3791	'National Enrichment Plant Tap - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82314	104.194	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82314	100.1936	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8218	102.7269	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8218	102.7269	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82254	102.8052	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82467	103.7196	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82054	104.5513	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8206	105.4312	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82041	102.7086	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82072	102.485	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82054	103.4103	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82083	102.4345	''P12:115:SPS:T64.1.RNDALL.PULLMN''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82055	103.2625	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82243	102.9509	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82048	103.6066	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82154	103.1082	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8206	103.0784	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	102.7703	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82213	102.8808	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82046	102.7308	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82043	102.4865	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.1167	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.4895	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82065	102.6609	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.7061	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82174	102.7784	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82038	102.4973	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82051	103.4638	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.6478	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82039	102.8807	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82272	102.8872	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	127.1503	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	127.1503	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.6598	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.9449	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.9041	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	104.6487	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	103.7386	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82087	102.902	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82082	102.7757	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82093	102.6275	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82517	102.8059	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82517	102.8059	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82088	100.832	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82088	100.832	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.4032	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82037	102.4032	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82051	101.1204	'RED_BLUFF 3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.8213	101.4281	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82497	102.7228	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82497	102.7228	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.77957	108.5021	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.77957	108.5021	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82144	103.2262	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82144	103.2262	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82144	103.2262	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.82144	103.2262	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81936	112.4752	'ALLRED TAP - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81854	112.3072	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81854	112.3072	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82528	112.2866	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82528	112.2866	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82528	115.3177	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82528	115.3177	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81761	111.1178	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81761	111.1178	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.6394	System Intact
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.6394	System Intact
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81876	112.5203	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81876	112.6057	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81771	111.1136	'BOPCO_PKRLK3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81995	112.5796	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81995	112.5796	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81891	112.2791	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81891	112.2791	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83185	108.7016	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83185	108.7016	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84541	110.4685	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84541	110.4685	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81801	113.6932	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81807	112.8476	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81807	112.413	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78499	105.9041	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.5449	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84433	103.4998	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82992	108.3034	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82992	108.3034	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83324	109.8043	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83324	109.8043	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82111	109.1462	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82111	109.1462	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81812	111.1375	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81812	111.1375	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.309	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81883	112.2214	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81883	112.2214	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.236	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.1346	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.1404	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.1404	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.0047	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.0047	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82261	113.0021	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82261	113.0021	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83573	117.4065	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83573	119.8216	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.1532	'GAINES COUNTY INTERCHANGE - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.6838	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.2342	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.8163	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.8171	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.7842	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.8316	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.8304	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.7428	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.9151	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.5053	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.742	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.6276	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.5947	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.8926	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.8928	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.6288	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	109.862	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.3868	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.0012	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.0047	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	105.6402	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	107.925	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	105.6446	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	105.6446	'GEN527902 1-HOBBS PLANT #2 (CT)'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	102.7795	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.0278	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.5726	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.6489	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.1577	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.1421	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.1423	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.537	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	111.0063	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.7158	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.2811	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.0849	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.8593	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.3427	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	107.2129	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.2083	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	100.6541	'GEN587423 1-G16-062-GEN10.6900'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	110.0109	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	108.7119	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	105.7536	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	102.7538	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	109.4338	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81781	112.779	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81781	112.779	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81966	112.2625	'Higg Switch Station - XTO_RUSSEL 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81861	112.2546	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81861	112.2546	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.2871	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81995	113.2574	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81995	113.2574	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81936	112.8116	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81861	113.0511	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81815	110.8673	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81815	110.8673	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81808	110.8389	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81808	111.0185	'National Enrichment Plant Tap - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81972	115.47	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.5024	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.5024	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8197	112.7766	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84541	123.214	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.84541	123.214	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82154	113.9609	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81774	114.0975	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8178	115.3965	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81761	112.1264	''P12:115:SPS:T24B.1.RSWLL.BRSHRF''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81789	112.1746	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81775	113.1564	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8186	112.2806	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81776	112.7604	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81966	112.8515	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81768	112.8608	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81876	112.8106	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81776	112.8544	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81807	112.5003	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81936	112.625	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81766	112.4137	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81763	112.2443	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.8444	''P12:115:SPS:W24.1.MOOREE.LASLEY''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	113.2377	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81786	112.1805	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.4032	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81897	112.4839	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.207	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81771	113.457	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	113.2799	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81758	112.4297	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81987	112.9319	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81801	112.705	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.5443	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	132.5443	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	106.7474	''P42:345:SPS:POTTER-2R05''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	113.6369	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.592	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.1917	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	112.6556	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	114.4127	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81757	113.4765	''P44:69:SPS:SPEARMAN_1740_175S''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81802	112.9644	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81798	112.7555	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81807	112.3066	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81923	111.1093	'PCA INTERCHANGE - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81923	111.1093	'PCA INTERCHANGE - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82251	112.2827	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82251	112.2827	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81786	111.1851	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81786	111.1851	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79829	107.6327	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81602	112.8542	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81602	112.8542	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81771	110.6352	'RED_BLUFF 3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81837	112.1678	'ROOSEVELT COUNTY INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT @1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81856	112.223	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81856	112.223	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81859	112.2324	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81859	112.2324	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81848	111.0794	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81798	112.0992	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81798	112.0992	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81801	112.7035	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81801	112.7117	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82198	112.2643	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82198	112.2643	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77604	116.0929	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77604	116.0929	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81468	112.9277	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81421	110.9867	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81852	113.0276	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81852	113.0276	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81852	113.0561	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81852	113.0561	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81999	104.8866	'ALLRED TAP - INK_BASIN 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82754	104.6988	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82754	104.6988	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82754	108.1119	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82754	108.1119	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81929	103.7163	'AMOCO TAP - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.6044	'ANDREWS 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.6044	'ANDREWS 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.1695	System Intact
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.1695	System Intact
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82016	104.9642	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82016	105.0773	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82143	105.057	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82143	105.057	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83337	101.7154	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83337	101.7154	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81958	105.4184	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81958	104.8142	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.6582	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8324	103.2006	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8324	103.2006	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8213	102.9078	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8213	102.9078	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8751	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8203	105.0613	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8203	105.0613	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.7623	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.7145	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82018	104.8437	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82018	104.8437	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.1757	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.1757	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82432	105.5947	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82432	105.5947	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81973	104.7003	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81973	104.7003	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81964	104.6391	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81964	104.6391	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83569	108.1244	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83569	110.2514	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.3891	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.013	'GEN524751 1-BETHEL_WND110.6900'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4664	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4681	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4371	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4416	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4405	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4026	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.551	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.6321	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.2141	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.8039	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.281	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.5635	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.5636	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.3196	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.4335	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.3833	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	100.1176	'GEN527166 1-MUSTANG_6 118.000'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	100.6712	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	100.675	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.8426	'GEN527881 1-CUNNINGHAM GEN #1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.6403	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.1314	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.2106	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.71	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.7025	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.7032	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.0888	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.5532	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.4966	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.9989	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.6806	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.516	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	103.0204	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.9237	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.6087	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	101.3004	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	102.0071	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81583	104.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81583	104.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82009	102.3437	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82009	102.3437	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82009	102.315	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81921	103.709	'HOCKLEY COUNTY INTERCHANGE - LAMB COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81921	103.709	'HOCKLEY COUNTY INTERCHANGE - LAMB COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.83199	107.1569	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82038	104.6295	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82129	105.5504	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82129	105.5504	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81975	103.7373	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81975	103.7373	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81929	103.6341	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81929	103.6341	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8187	103.5833	'LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8187	103.584	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8187	103.584	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82035	104.7866	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81985	105.2626	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8196	103.0463	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8196	103.0463	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82193	106.9414	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82193	102.7133	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8204	104.7101	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8204	104.7101	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82044	104.942	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82044	104.942	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82115	104.8751	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82343	107.3037	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81917	107.2614	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81924	108.43	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81905	104.845	''P12:115:SPS:T24B.1.RSWLL.BRSHRF''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81905	104.7243	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81937	104.842	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81917	105.6212	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81907	104.6166	''P12:115:SPS:T45.1.NORRIS.OASIS''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8153	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81917	105.5524	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81919	104.6299	''P12:115:SPS:T87.1.SPRMN.HANSFRD''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82099	105.0656	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81913	105.8133	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82016	105.3782	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81927	105.5392	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81958	104.9242	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81924	104.6615	''P12:115:SPS:V93.1.PNTX_N.PNTX_S''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8191	104.6152	''P12:115:SPS:V99.1.PLAINS.YOAKUM''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81909	105.0215	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81906	104.7794	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.4717	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.8946	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81912	104.8822	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.9456	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82038	104.8336	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81903	104.7919	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81902	106.1301	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.9328	''P12:115:SPS:W76.1.QUAHA.PCA''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81903	105.2395	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8187	103.5836	''P12:230:SPS:K39.1.CRLSLE.MLWAKEE''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82131	104.963	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.6585	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	131.6585	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	106.4996	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.3334	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.8984	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	105.3926	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.6314	''P44:69:SPS:GRAY_CNTY_2830''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	107.068	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	106.3264	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81954	105.8596	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81948	105.5033	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81958	104.6841	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82401	104.7487	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82401	104.7487	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81959	103.0526	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81959	103.0526	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.6501	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81901	104.6501	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81989	103.7053	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81948	104.7118	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81948	104.7118	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82364	105.0825	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82364	105.0825	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77764	110.5568	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77764	110.5568	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81527	105.6194	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8937	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8937	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8937	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.82004	104.8937	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81975	104.7291	'WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81975	104.7291	'WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77836	120.6823	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77836	120.6823	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77836	123.5159	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77836	123.5159	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	121.6564	System Intact
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	121.6564	System Intact
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77709	122.1293	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77683	123.413	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77683	123.413	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77955	122.1626	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77955	122.1626	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78559	118.0394	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78559	118.0394	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77681	122.4518	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77681	122.3227	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80617	118.4865	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78902	122.6522	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78902	122.6522	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78006	120.6278	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78006	120.6278	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7864	123.179	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7864	123.179	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77935	122.1234	'EDDY_STH 3115.00 - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77935	122.1234	'EDDY_STH 3115.00 - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78029	123.9179	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78029	124.9763	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.5863	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.5041	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8098	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8114	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7767	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8388	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8377	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7329	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.911	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.605	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.34	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.103	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.8503	'GEN526678 1-CIRRUS_WND 10.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.2038	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.2039	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.3808	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.2076	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.2098	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	106.2508	'GEN527651 1-RSVLT_WIND110.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	106.4935	'GEN527652 2-RSVLT_WIND210.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	115.5191	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	115.505	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	116.7422	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	116.7422	'GEN527902 1-HOBBS PLANT #2 (CT)'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	114.5316	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7156	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.1437	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.6929	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	121.1049	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7334	'GEN562007 1-G11-025-GEN 0.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.5473	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.0236	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.1723	'GEN562538 1-G14_035_3 0.3420'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.8308	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.2003	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	109.3413	'GEN562942 1-G15056_3 0.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	118.049	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.4279	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	112.9369	'GEN587423 1-G16-062-GEN10.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.1013	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.1815	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	117.443	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	103.748	'GEN588003 1-G16-123-GEN10.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	103.5096	'GEN588006 1-G16-123-GEN20.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	103.5096	'GEN588013 1-G16-124-GEN10.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	112.5933	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	119.6807	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7189	'GEN588443 1-G16-172-GEN10.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	120.7413	'GEN588446 1-G16-172-GEN20.6900'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78139	120.1952	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78139	120.1952	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77795	124.4886	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77909	124.0348	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77746	122.4353	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77746	122.4353	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77758	120.9761	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77758	120.9761	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77695	122.2695	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77514	125.2165	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77791	123.0907	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77746	122.9885	"P11:115:533:PRATT_P2:1:539687(P2)"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7768	123.3511	"P12:115:SPS:T19.1.TERRY.SULPHUR"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77701	122.9694	"P12:115:SPS:T42.1.WHOBBS.MADDOX"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77682	122.5056	"P12:115:SPS:T86.1.AMASTH.SPGDRW"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77736	122.5638	"P12:115:SPS:T93.1.HUTCH.MARTIN"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77677	122.5389	"P12:115:SPS:T99.1.LEA_NA.HOBBG"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77709	122.3483	"P12:115:SPS:U02.1.PORTA.GREYHND"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77666	122.9276	"P12:115:SPS:V51.1.HERFRD.DFSMTH"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77681	122.3624	"P12:115:SPS:V61.1.PCA.CRLBAD"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77675	122.1941	"P12:115:SPS:V99.1.PLAINS.YOAKUM"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77676	122.2942	"P12:115:SPS:W01.1.CARSON.MARTIN"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77675	122.3639	"P12:115:SPS:W13.1.SMINLE.ROZ"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.2668	"P12:115:SPS:W24.1.MOOREE.LASLEY"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.4815	"P12:115:SPS:W25.1.PECOS.OCOTILLO"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.3588	"P12:115:SPS:W36.1.TAYLOR.JNSDRW"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77714	122.1337	"P12:115:SPS:W38.1.RDBLUFF.WIPP"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	123.3327	"P12:115:SPS:W41.2.HERFRD.DFSMTH"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.6607	"P12:115:SPS:W76.1.QUAHA.PCA"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77801	123.1855	"P12:230:SPS:K53.1.NICHLS.GRAPE"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	116.5486	"P42:345:SPS:POTTER-2R05"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.3263	"P44:69:SPS:BOARDMAN_8845"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.2787	"P44:69:SPS:CARLISLE_6885"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.913	"P44:69:SPS:RIVERVIEW_R708"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77674	122.4485	"P44:69:SPS:SPEARMAN_1740_1755"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77677	122.2912	"P44:69:SPS:SULPHUR_6F25"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7768	122.4548	"P44:69:SPS:TERRY_CNTY_6700"
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77681	122.2965	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78591	122.6439	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78591	122.6439	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77771	122.2026	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77771	122.2026	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7772	122.1548	'ROOSEVELT COUNTY INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77718	122.6951	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77718	122.6951	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7772	122.7147	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7772	122.7147	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77708	121.1911	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79409	105.691	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79409	105.691	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7961	105.9326	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7961	105.9326	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.8842	System Intact
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.8842	System Intact
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79346	104.3493	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79346	104.4383	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79467	105.4877	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79467	105.4877	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79399	104.5252	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79399	104.5252	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79549	104.4085	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79549	104.4085	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80323	101.7551	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80323	101.7551	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.3164	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.3164	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79325	104.7878	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	134.759	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81805	101.1604	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80517	104.9622	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80517	104.9622	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81259	102.371	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.81259	102.371	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79575	102.2519	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79575	102.2519	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79378	104.7588	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79378	104.5751	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79378	104.5273	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	133.284	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	133.284	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8016	105.8303	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.8016	105.8303	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79404	104.5501	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79404	104.5501	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79392	104.4762	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79392	104.4762	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79747	105.3359	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79747	106.3391	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1211	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.7517	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1601	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.161	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1329	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1772	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1763	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.098	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.2403	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.9929	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.4885	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.125	'GEN525844 1-ELK_1 118.000'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.1659	'GEN525845 1-ELK_2 1 18.000'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.7321	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.3146	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.314	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.0337	'GEN526333 1-JONES GEN #3 21 KV'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.0212	'GEN526334 1-JONES_4 116.500'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7009	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7009	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.4983	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.8368	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7582	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.7497	'GEN527166 1-MUSTANG_6 118.000'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.7861	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.7878	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.3071	'GEN527881 1-CUNNINGHAM GEN #1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.8532	'GEN527883 1-CUNNINGHAM GEN #3 22 KV'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.0968	'GEN527884 1-CUNNINGHAM GEN #4 22 KV'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.0767	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7166	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	103.0447	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.6885	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.8744	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.5417	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.7161	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.8108	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.7661	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.4784	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.4835	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	101.788	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	100.2306	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	102.2583	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79791	100.5038	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79791	100.5038	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80858	106.8647	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80858	106.8647	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79551	106.5919	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79657	104.9925	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79389	104.6462	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79389	104.6462	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79385	102.7528	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79385	102.7528	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79272	103.408	'LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79272	103.4032	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79272	103.4032	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79334	104.5857	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79316	103.4089	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79316	103.4089	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79326	105.7781	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79326	102.884	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79424	106.0067	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79424	106.0067	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79446	104.3965	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.0713	'OKLAUN HVDC7345.00 - OKLAUNION 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.0703	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7947	105.7898	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79309	106.2986	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79312	107.274	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.7935	''P12:115:SPS:T26.1.CHAVES.RSWLCTY''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79305	104.3992	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79317	104.3324	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79327	104.9713	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79378	104.5848	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79307	104.8012	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79373	104.4264	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79307	105.0883	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79346	104.7277	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79311	104.8737	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79325	104.3201	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79306	104.496	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.3773	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.8104	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.1636	''P12:115:SPS:W25.1.PECOS.OCOTILLO''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79305	104.4457	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.4127	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7931	104.4006	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.1764	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.072	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79304	104.8539	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79272	103.4063	''P12:230:SPS:K39.1.CRLSLE.MLWAKEE''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79457	104.4754	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	134.7586	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	134.7586	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.4975	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.7136	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.4994	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	104.9275	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.3021	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79303	105.4703	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79323	105.0841	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79321	104.8198	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79929	103.1652	'PECOS INTERCHANGE - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79929	103.1652	'PECOS INTERCHANGE - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80096	104.7566	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80096	104.7566	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79297	103.1263	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79297	103.1263	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79393	104.4663	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79393	104.4663	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79357	105.0249	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79357	105.0249	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75297	114.4015	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75297	114.4015	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.78916	105.6272	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80985	109.6921	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.80985	109.6921	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79285	100	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79285	100	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79285	102.555	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79285	102.555	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.2309	System Intact
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.2309	System Intact
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79041	101.7019	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	101.8609	'CARGILL SUB - DEAF SMITH REC-#24 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79251	101.8018	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79251	101.8018	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.7371	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.7371	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	102.3545	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	101.9089	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.80213	101.8649	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.80213	101.8649	'CUNNIGHM_S 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79282	100	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79282	100	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	102.1775	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	102.0773	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	101.9958	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79875	103.5221	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79875	103.5221	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79103	101.7958	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79103	101.7958	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79091	101.7301	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79091	101.7301	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79231	101.745	'EDDY_STH 3115.00 - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79231	101.745	'EDDY_STH 3115.00 - PECOS INTERCHANGE 115KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79422	102.6134	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79422	103.7389	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2731	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2802	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2362	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2502	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2488	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.2053	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.4037	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.1233	'GEN526678 1-CIRRUS_WND 10.6900'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.6921	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.1064	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.0842	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100.5581	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	100	'GEN562007 1-G11-025-GEN 0.6900'
FDNSLock	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79326	102.6771	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79082	101.9075	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79082	101.9075	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79082	100.2052	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79082	100.2052	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	100.795	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79028	101.8844	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79008	102.431	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79141	101.7546	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.80824	108.0622	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.80824	108.0622	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.9954	''P12:115:SPS:T26.1.CHAVES.RSWLCTY''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79002	102.1409	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79024	102.7219	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79073	102.0422	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79115	101.7319	''P12:115:SPS:T64.1.RNDALL.PULLMN''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79005	102.4995	''P12:115:SPS:T86.1.AMASTH.SPGDRW''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79067	101.733	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79004	102.7731	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79041	102.1392	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNSLock	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79005	101.9212	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	101.9939	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79018	101.8247	''P12:115:SPS:V93.1.PNTX_N.PNTX_S''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79003	102.2919	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79001	101.923	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.3708	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.9532	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79002	102.2211	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.8781	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79007	101.8248	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.8081	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79001	102.2969	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79152	101.882	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.7929	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.3322	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	101.8825	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	102.2802	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	103.0404	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79	103.218	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79017	102.4015	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79016	102.2184	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7902	101.956	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7981	102.5984	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7981	102.5984	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.78983	100.5261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.78983	100.5261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7909	101.8843	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.7909	101.8843	'POTASH JUNCTION INTERCHANGE (SIEMT0012961) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.79046	100.793	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.78683	101.9657	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	26SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.9101	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	26SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.4052	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	26SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.4052	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	26SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.9101	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	0	26SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	130.9101	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	0	21SP	G16_125	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.06793	100.2876	System Intact
FDNS	06ALL	0	21SP	G16_125	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.06793	100.2876	System Intact
FDNS	06ALL	0	18G	G16_125	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07318	113.3	System Intact
FDNS	06ALL	0	18G	G16_125	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07318	113.3	System Intact
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.05264	143.02	System Intact
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.05264	143.02	System Intact
FDNS	06ALL	0	21SP	G16_125	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07123	109.3228	System Intact
FDNS	06ALL	0	21SP	G16_125	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07123	109.3228	System Intact
FDNS	06ALL	0	21WP	G16_125	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.06677	125.0648	System Intact
FDNS	06ALL	0	21WP	G16_125	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.06677	125.0648	System Intact
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05397	100	System Intact
FDNS	06ALL	0	21L	G16_125	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05397	100	System Intact
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	104.4953	'3491-MOORE COUNTY INTERCHANGE W.'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	105.4916	'ALTUS JUNCTION - RUSSELL 138KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	105.4916	'ALTUS JUNCTION - RUSSELL 138KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.2788	'AMOCO TAP - CHILDRESS 69KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.8844	'ARNEGARD-MK7115.00 - EASTHYBT-MK7115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20059	103.941	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20059	103.941	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	104.4953	System Intact
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	104.4953	System Intact
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.6995	'BLACKHAWK STATION S. - QUENCH-RYTON TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	108.687	'BOWERS INTERCHANGE - Graves Sub 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	108.687	'BOWERS INTERCHANGE - Graves Sub 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	106.503	'BOWERS INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20089	103.9291	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20089	103.9291	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20228	105.2669	'CACHE - SNYDER 138KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20229	107.1118	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20229	107.1118	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	109.7545	'CHAN+TASCOS6230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	109.7545	'CHAN+TASCOS6230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.7391	'CHAN+TASCOS6230.00 - XIT_INTG 6230.00 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20405	104.6099	'CHERRY1 - HARRINGTON STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20405	104.6099	'CHERRY1 - HARRINGTON STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20481	106.2497	'CHERRY1 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20481	106.2497	'CHERRY1 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.2175	'CHILDRESS - HOLLIS TAP 138KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.2316	'CHILDRESS (CHLDR2WT) 138/69/12.47KV TRANSFORMER CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.2316	'CHILDRESS (CHLDR2WT) 138/69/12.47KV TRANSFORMER CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.6976	'CLARENDON - CLARENDON REC 69KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7384	'CLARENDON - HWRDWCK2 69.000 69KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.6079	'CLARENDON REC - HEDLEY 69KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20286	105.6394	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20286	105.6394	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20351	105.9599	'DALLAM COUNTY INTERCHANGE - SHERMAN COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.3139	'DALLAM COUNTY INTERCHANGE - XIT_INTG 3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.3139	'DALLAM COUNTY INTERCHANGE - XIT_INTG 3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	105.6827	'DUMAS SUB - EXELL TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	105.1654	'DUMAS SUB - RB-S&S 3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20222	106.3214	'EAST LIBERAL - TEXAS COUNTY INTERCHANGE PHASE SHIFT TFMR 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	106.3214	'EAST LIBERAL - TEXAS COUNTY INTERCHANGE PHASE SHIFT TFMR 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.9236	'EASTHYBT-MK7115.00 - LSSSW_SOUTH7115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	106.0359	'EXELL TAP - FAIN SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	106.1285	'FAIN SUB - NICHOLS STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.19912	104.8227	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.19912	104.8227	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.1043	'GEN522866 1-LUBBOCK POWER & LIGHT-HOLLY GEN'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.3403	'GEN523277 1-VALERO SUB'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.3571	'GEN523461 1-BLACKHAWK GEN #1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.3569	'GEN523462 1-BLACKHAWK GEN #2'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.8696	'GEN524022 1-NICHOLS GEN #2'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0207	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.4773	'GEN524491 1-TUCUMCARI GEN'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.3329	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.3386	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.2869	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.272	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.2699	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.2311	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.4744	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.4643	'GEN525910 1-PLSNTHLLWND10.6900'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.3332	'GEN526678 1-CIRRUS_WND 10.6900'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.2529	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0915	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0948	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.8446	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.0657	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0536	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	104.8636	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	106.2832	'GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.3797	'GEN542962 2-IATAN UNIT #2'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.0562	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.6869	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.7613	'GEN560759 1-ASGI13_02_3 0.6900'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.5773	'GEN560762 1-ASGI13_03_3 0.6900'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.5323	'GEN562007 1-G11-025-GEN 0.6900'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.5512	'GEN562325 1-ASGI_12_02_30.6900'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	102.9765	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	102.8932	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.0593	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	100.7332	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	101.3522	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.1628	'GEN640009 1-COOPER NUCLEAR STATION'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.174	'GEN640011 2-GERALD GENTLEMAN STATION UNIT 2'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.1369	'GEN645012 2-NEBRASKA CITY 2'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.1717	'GEN659118 1-LARAMIE RIVER UNIT1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	106.4779	'Graves Sub - STATELINE INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	106.4779	'Graves Sub - STATELINE INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20227	105.2391	'GRAY COUNTY INTERCHANGE - HUTCHINSON COUNTY INTERCHANGE S. 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20227	105.2358	'GRAY COUNTY INTERCHANGE (WH RHP17221) 115/69/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20227	105.2358	'GRAY COUNTY INTERCHANGE (WH RHP17221) 115/69/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20473	105.5769	'Harrington Station East Bus - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20473	105.5769	'Harrington Station East Bus - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20476	108.96	'Harrington Station East Bus - PRINGLE INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.6141	'HEDLEY - NORTH MEMPHIS REC 69KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20243	105.5842	'HERRING TAP - RITA BLANCA REC-SNEED 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20243	105.6251	'HERRING TAP - RIVERVIEW INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20345	105.5156	'HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20345	105.5156	'HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20599	107.738	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20599	107.738	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20354	105.4032	'HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20354	105.4032	'HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20708	109.1618	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20708	109.1618	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20354	105.4032	'HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20354	105.4032	'HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.5383	'HOLLIS TAP - WELLINGTON 138KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20364	105.7459	'HUTCHINSON COUNTY INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20364	105.7459	'HUTCHINSON COUNTY INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7753	'HWRDWCK2 69.000 - JERICHO 69KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7761	'JERICHO - KIRBY SWITCHING STATION 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7761	'JERICHO - KIRBY SWITCHING STATION 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7661	'JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7661	'JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20308	105.2712	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20308	105.2712	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20308	105.1609	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2026	105.988	'KINGSMILL INTERCHANGE - LLANO ESTACADO WIND GEN 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	107.1747	'KINGSMILL INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.7399	'KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20297	106.9843	'LAKE PAULINE - RUSSELL 138KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20297	106.9843	'LAKE PAULINE - RUSSELL 138KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.9032	'LAMAR - LSSSW_SOUTH7115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.9032	'LAMAR 115/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2026	105.7141	'LLANO ESTACADO WIND GEN - MIDSTREAM ENERGY TAP 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.7085	'MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.338	'MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.338	'MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.571	'MEMPHIS - NW MEMPHIS 69KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2026	106.1201	'MIDSTREAM ENERGY TAP - NICHOLS STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2034	106.3075	'MOORE COUNTY INTERCHANGE EAST BUS - RB-SPURLCK+3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	104.9876	'MOORE COUNTY INTERCHANGE W. - RB-S&S 3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20243	105.3435	'MOORE COUNTY INTERCHANGE W. - RITA BLANCA REC-SNEED 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.4417	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.4029	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.5717	'NORTH MEMPHIS REC - NW MEMPHIS 69KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2041	108.0604	'OCHILTREE - TEXAS FARMS SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20345	105.2606	'OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20345	105.2606	'OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	105.0831	''P12:115:SPS:T27.1.NICHLS.DUMAS19''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2028	105.6511	''P12:115:SPS:T28A.1.LAMTON.PLANTX''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.2047	''P12:115:SPS:T51.1.BOWERS.GRAPE''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	109.1277	''P12:115:SPS:T56.2.DC_S.MUSTG''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20243	105.21	''P12:115:SPS:V03.1.NICHLS.EPLANT''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2026	106.2875	''P12:115:SPS:V32.1.TXSCO.ELB(534)''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20227	105.2481	''P12:115:SPS:V37.1.CASTRO.PLANTX''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20351	105.7457	''P12:115:SPS:W07.1.HITCH.TXSCO''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2034	106.1218	''P12:115:SPS:W26.1.CUNGHM.OILCNTR''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2041	107.7513	''P12:115:SPS:W31.1.OASIS.PRMTR''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	109.1277	''P12:115:SPS-AEPW:KIRBY3:SHAM3WT''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	105.9628	''P12:115:UMZS:# 118 #: PAS IN SD. LINE FAULT BTWN ASH ST-EVANS ST''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20228	105.2665	''P12:138:AEPW:112GORE4:SNYDER-4''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.6605	''P12:138:AEPW:SHAM4WT:CHILD4WT''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20476	108.9526	''P12:230:SPS:K45.2.PLANTX.TOLK''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.6758	''P12:345:SPS:J01.1.TUCO.OKU(520)''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.0188	''P12:69:AEPW:CHLDR2WT:MEMPHIS2''
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7856	''P12:69:AEPW:JERICWT:CLARDON2''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.0695	''P12:69:AEPW:NWMEMPH2:CHLDR2WT''
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	105.7374	''P12:69:AEPW:NWMEMPH2:CLARDON2''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20708	109.1618	''P22:345:SPS:ROADRUNNER_21S''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20504	107.6842	''P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20286	105.2393	''P23:345:AEPW:PITTSBURG CB 3425A NBTB''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20304	105.3928	''P23:345:AEPW:PITTSBURG CB 3429A NBTB''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20308	105.2732	''P23:345:AEPW:PITTSBURG CB 3433A NBTB''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20089	104.1649	''P23:345:SUNC:HLC_BRK182''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20087	104.2271	''P23:345:SUNC:HLC_BRK282''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.19942	104.3641	''P23:345:SUNC:MG_BRKXX''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20085	104.2354	''P23:345:SUNC:SV_BRK782''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20326	105.5042	''P42:345:OKGE:SB_JOCO7313''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20326	105.0828	''P42:345:OKGE:SB_JOCO7383''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20275	105.1709	''P44:69:SPS:CASTRO_CNTY_9734_6G20''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	103.9516	''P44:69:SPS:TC-TXCOUNTY_XXXX''
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20254	106.2303	'PRINGLE INTERCHANGE - QUENCH-RYTON TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20313	106.0222	'PRINGLE INTERCHANGE - RIVERVIEW INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20313	106.0222	'PRINGLE INTERCHANGE - RIVERVIEW INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20358	107.7607	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20358	107.7607	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20476	108.4523	'PRINGLE INTERCHANGE (ENRCO13617-1) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20476	108.4523	'PRINGLE INTERCHANGE (ENRCO13617-1) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2034	106.2208	'RB-ELKS 3115.00 - RB-SPURLCK+3115.00 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2034	106.1305	'RB-ELKS 3115.00 - SHERMAN COUNTY TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.3699	'SHAMROCK - WELLINGTON 138KV CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.2715	'SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1'
FDNSLock	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.2715	'SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.5703	'SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20314	107.5703	'SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20351	105.7817	'SHERMAN COUNTY SUB - SHERMAN COUNTY TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2041	108.5795	'SPEARMAN INTERCHANGE - SPEARMAN SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.2041	108.3085	'SPEARMAN SUB - TEXAS FARMS SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	106.564	'STATELINE INTERCHANGE (H TP80154301) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20293	106.564	'STATELINE INTERCHANGE (H TP80154301) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20097	106.0795	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20097	106.0795	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20226	106.3218	'TEXAS COUNTY INTERCHANGE - TEXAS COUNTY INTERCHANGE PHASE SHIFT TFMR 115KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20432	106.9395	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20432	106.9395	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.2946	'XIT_INTG 6230.00 (SIEM_T126401) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.20465	108.2946	'XIT_INTG 6230.00 (SIEM_T126401) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.04867	103.1502	System Intact
FDNS	06ALL	0	21L	G16_125	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.04867	103.1502	System Intact
FDNSLock-Blown up	06ALL	0	17WP	G16_125		Non-Converge	1793	1793	0.18841	26.44219	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_125		Non-Converge	1022	1143	0.2266	59.59728	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_125		Non-Converge	740.37	740.37	0.82037	101.981	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_125		Non-Converge	318.69	318.69	0.05302	44.80788	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_125		Non-Converge	318.69	318.69	0.05302	44.80788	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_125		Non-Converge	0	0	1.00842	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	17WP	G16_125		Non-Converge	0	0	0.24703	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	17WP	G16_125		Non-Converge	0	0	0.53519	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	17WP	G16_125		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	17WP	G16_125		Non-Converge	0	0	0.72686	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	18G	G16_125		Non-Converge	1793	1793	0.18235	31.21747	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_125		Non-Converge	1022	1143	0.22033	68.00926	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_125		Non-Converge	717.06	717.06	0.81757	111.6394	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_125		Non-Converge	956.09	956.09	0.241	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_125		Non-Converge	956.09	956.09	0.241	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_125		Non-Converge	0	0	1.12537	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	18G	G16_125		Non-Converge	0	0	0.23961	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	18G	G16_125		Non-Converge	0	0	0.25368	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	18G	G16_125		Non-Converge	0	0	0.52136	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	18G	G16_125		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	18G	G16_125		Non-Converge	0	0	0.85309	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	18SP	G16_125		Non-Converge	1793	1793	0.18859	29.57274	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_125		Non-Converge	956	1042	0.21907	61.96857	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_125		Non-Converge	717.06	717.06	0.81901	104.1695	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_125		Non-Converge	318.69	318.69	0.05259	44.02533	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_125		Non-Converge	318.69	318.69	0.05259	44.02533	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_125		Non-Converge	0	0	1.27604	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	18SP	G16_125		Non-Converge	0	0	0.23991	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	18SP	G16_125		Non-Converge	0	0	0.53629	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	18SP	G16_125		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	18SP	G16_125		Non-Converge	0	0	0.96091	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	500.8	556.5	0.05816	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	500.8	556.5	0.05816	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	1793	1793	0.15773	42.62265	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	1793	1793	0.12316	29.83855	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	478	502	0.07072	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	478	502	0.07072	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	318.69	318.69	0.05864	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	318.69	318.69	0.05864	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	1195	1195	0.07635	32.97946	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	478.04	478.04	0.03615	11.44848	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	478.04	478.04	0.03615	11.44848	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	439	439	0.03152	59.82893	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	421	439	0.06368	111.2135	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	1793	1793	0.06673	22.60611	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	675	743	0.03216	30.2285	'CHISHOLM7 345.00 () 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	1022	1143	0.18026	85.48402	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	717.06	717.06	0.22326	15.59045	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	717.06	717.06	0.77674	121.6564	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	515	558	0.22326	18.4564	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	515	558	0.22326	18.4564	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	287	316	0.03152	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	287	316	0.03152	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	956.09	956.09	0.08459	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	956.09	956.09	0.08459	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	956.1	1051.7	0.08459	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	956.1	1051.7	0.08459	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	1793	1793	0.06673	23.6207	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	717	789	0.06012	46.87057	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	1195	1195	0.11721	36.51713	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	318.69	318.69	0.05264	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	318.69	318.69	0.05264	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	433	500	0.05397	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	433	500	0.05397	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	497.16	546.96	0.05348	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	497.16	546.96	0.05348	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	956.09	956.09	0.20226	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	956.09	956.09	0.20226	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	956.1	1051.7	0.09982	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	956.1	1051.7	0.09982	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	1792	1792	0.05975	13.85183	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	1792	1792	0.05975	13.85183	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	318.69	318.69	0.04867	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	318.69	318.69	0.04867	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	375.26	412.71	0.0578	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	375.26	412.71	0.0578	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	318.69	318.69	0.03615	60.71251	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	318.69	318.69	0.03615	60.71251	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.12736	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.44652	9999	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	1.12268	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.19513	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.11514	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.13949	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.08459	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.12634	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.20268	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.10134	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.11721	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.11721	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.11721	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.11721	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.11247	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.08459	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.46347	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	0	0	0.89568	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	1195	1195	0.2612	48.61858	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	504	555	0.06368	96.02361	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	504	555	0.06368	95.71223	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	1792	1792	0.04743	17.74159	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_125		Non-Converge	1792	1792	0.04743	17.74159	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	1793	1793	0.18992	37.78229	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	1793	1793	0.14899	28.82343	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	353	353	0.08633	86.61529	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	956	1042	0.21939	76.05145	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	717.06	717.06	0.79303	103.8842	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	318.69	389	0.06793	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	318.69	389	0.06793	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	318.69	318.69	0.07123	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	318.69	318.69	0.07123	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	433	500	0.07314	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	433	500	0.07314	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	956.09	956.09	0.24662	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	956.09	956.09	0.24662	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	318.69	318.69	0.06227	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	318.69	318.69	0.06227	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	318.69	318.69	0.04251	42.68379	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	318.69	318.69	0.04251	42.68379	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	0	0	0.17267	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	0	0	1.17497	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	0	0	0.24049	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	0	0	0.10852	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	0	0	0.15779	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	0	0	0.2537	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	0	0	0.16326	9999	''P42:345:OKGE:SB_WWHV7383''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	0	0	0.10852	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	0	0	0.52522	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	0	0	0.90078	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	1195	1195	0.27861	56.72121	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	504	555	0.08633	48.59974	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_125		Non-Converge	504	555	0.08633	48.27787	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	500.8	556.5	0.05864	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	500.8	556.5	0.05864	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1793	1793	0.18131	41.74516	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1793	1793	0.14221	29.26695	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1793	1793	0.18131	41.74516	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	557	557	0.07248	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	557	557	0.07248	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	318.69	318.69	0.06124	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	318.69	318.69	0.06124	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	557	557	0.07248	46.1797	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1195	1195	0.09162	33.5474	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1792	1792	0.12063	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1792	1792	0.12063	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1792	1792	0.12063	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1792	1792	0.12063	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	439	439	0.03932	63.4582	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	421	439	0.08108	101.7193	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1793	1793	0.08086	21.23961	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	956	956	0.12617	62.35377	'CIMARRON - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1022	1143	0.20927	81.02731	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1195	1195	0.28705	38.97808	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	740.37	740.37	0.21	29.78283	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	740.37	740.37	0.79	101.2309	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	329.05	389	0.0657	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	329.05	389	0.0657	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	329.05	389	0.0657	77.71954	'DEAF SMITH COUNTY INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	558	558	0.21	37.52913	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	558	558	0.21	37.52913	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	956.09	956.09	0.10316	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	956.09	956.09	0.10316	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	987.2	1082.8	0.10316	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	987.2	1082.8	0.10316	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1793	1793	0.08086	23.59854	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	717	789	0.06395	40.22197	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1195	1195	0.12617	41.01586	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	345.78	345.78	0.06677	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	345.78	345.78	0.06677	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	500	556	0.06866	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	500	556	0.06866	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	552.14	607.51	0.06669	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	552.14	607.51	0.06669	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1036.76	1036.76	0.23533	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1036.76	1036.76	0.23533	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	987.2	1082.8	0.12173	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	987.2	1082.8	0.12173	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1792	1792	0.07617	7.996662	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1792	1792	0.07617	7.996662	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1195	1195	0.11183	50.44144	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	329.05	329.05	0.05884	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	329.05	329.05	0.05884	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	449.76	494.77	0.06014	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	449.76	494.77	0.06014	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.03989	9999	''P12:230:SPS:K45.2.PLANTX.TOLK''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.16215	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.03237	9999	''P12:345:SPS:J01.1.TUCO.OKU(520)''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.42	9999	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.88733	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.08411	9999	'P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.22942	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.13672	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.16955	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.10316	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.14963	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.24125	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.12063	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.12063	9999	''P42:345:OKGE:SB_BVTY7385''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_MICO7301''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.12617	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.15607	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.10316	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.50739	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	0	0	0.63992	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1195	1195	0.27206	54.77373	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	560.9	617	0.08108	66.37998	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	560.9	617	0.08108	66.11691	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1195	1195	0.11183	57.37275	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	318.69	318.69	0.04958	60.80061	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	318.69	318.69	0.04958	60.80061	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1792	1792	0.07289	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_125		Non-Converge	1792	1792	0.07289	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_125		Non-Converge	717.06	717.06	0.79432	85.52613	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_125		Non-Converge	318.69	318.69	0.04294	29.08259	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_125		Non-Converge	318.69	318.69	0.04294	29.08259	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	26SP	G16_125		Non-Converge	0	0	0.92018	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	26SP	G16_125		Non-Converge	0	0	0.64297	9999	"P44:69:SPS:BAILYCO_8860"
FDNS	06ALL	2	18G	G16_125	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.2661	103.6849	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.21318	101.9113	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24937	105.8431	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24937	111.1664	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_125	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.23754	114.9962	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_125	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.23754	120.3499	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	129.2377	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	129.5162	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNS	06ALL	2	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	129.7111	"P44:69:SPS:BAILYCO_8860"
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	133.9565	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.3836	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.8399	"P44:69:SPS:BAILYCO_8860"
FDNS	06ALL	2	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.0469	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.2899	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNS	06ALL	2	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.807	"P44:69:SPS:BAILYCO_8860"
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	135.549	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	137.5301	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.369	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.7823	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	135.3875	"P44:69:SPS:BAILYCO_8860"
FDNS	06ALL	2	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	129.935	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	740.37	740.37	1	130.7562	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNS	06ALL	2	26SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.1565	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	26SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.3254	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNS	06ALL	2	26SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'	717.06	717.06	1	134.951	"P44:69:SPS:BAILYCO_8860"
FDNS	06ALL	2	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	123.1685	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	123.172	"P12:345:SPS:J17.1.TUCO.YOAKUM"
FDNS	06ALL	2	17WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	123.1777	"P22:345:SPS:HITCHLAND_AT2"
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.8945	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79155	104.0045	'EDDY COUNTY INTERCHANGE - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74919	100.7726	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77637	104.78	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77637	104.78	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74444	100.7165	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75571	104.8104	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75571	104.8104	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74288	100.9209	"P12:115:SPS:T20.1.SEGRVS.SULPHUR"
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.8992	"P12:345:SPS:J17.1.TUCO.YOAKUM"
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.9035	"P22:345:SPS:HITCHLAND_AT2"
FDNSLock	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74559	100.5421	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74276	100	"P44:69:SPS:RIVERVIEW_R708"
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.70236	100.9171	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.70236	100.9171	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77255	105.3737	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77255	105.3737	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.735	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.7391	"P12:345:SPS:J17.1.TUCO.YOAKUM"
FDNS	06ALL	2	18SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.7446	"P22:345:SPS:HITCHLAND_AT2"
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72415	113.1293	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72415	113.1293	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72687	111.3793	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72687	111.3793	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72687	114.7997	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72687	114.7997	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72316	111.9642	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72316	111.9642	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.4329	System Intact
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.4329	System Intact
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7236	112.9157	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7236	112.9779	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72599	115.5922	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72431	113.4349	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7245	113.203	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7245	113.203	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72392	113.1495	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72392	113.1495	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72334	113.3275	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72334	113.3275	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72847	109.0963	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72847	109.0963	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.8746	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.8746	'CHINA_DRAW 3115.00 - YESO_HILLS 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72118	111.479	'CHISHOLM7 345.00 - GRAPEVINE 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	113.434	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	113.2687	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72516	114.606	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72539	115.4823	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.67641	103.1262	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	129.632	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.6696	'CROSSROADS 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.6696	'CROSSROADS 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.73197	110.1567	'CUNNIGHM_S 6230.00 - CUNNINGHAM STATION 230KV CKT *1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72754	111.7685	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72754	111.7685	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72535	111.5946	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72535	111.5946	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77578	118.2871	'EDDY COUNTY INTERCHANGE - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72348	112.0003	'EDDY COUNTY INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74435	111.7983	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74435	111.7983	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72371	113.1276	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72805	114.9953	'G16171_T 230.00 - HOBBS INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72805	116.111	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.7777	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.2088	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.8415	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.842	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.817	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.8547	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.854	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.7888	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.9129	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.051	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	110.5695	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.211	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	108.9767	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	108.9768	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	110.182	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.7515	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.754	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	107.0473	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	106.1605	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	107.3054	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	107.3054	'GEN527902 1-HOBBS PLANT #2 (CT)'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	104.9543	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.9652	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.5181	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.8855	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.4931	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.8927	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.0001	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.3175	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.3035	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.818	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.5074	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	101.5238	'GEN562942 1-G15056_3 0.6900'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	108.6841	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	110.7535	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	103.0499	'GEN587423 1-G16-062-GEN10.6900'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	111.2495	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	109.9327	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	107.3785	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	104.4548	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	110.4932	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72118	111.4919	'GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.71996	111.3902	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.71996	111.3902	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75462	111.705	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.75462	111.705	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7518	122.6407	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7518	122.6407	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72332	112.0443	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72646	115.0667	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72415	113.3492	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72415	113.3492	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72283	113.4791	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72283	113.4791	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7236	112.8979	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	111.9907	'LEA COUNTY REC-PLAINS INTERCHANGE - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	111.9407	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	111.9791	'LEHMAN_TP 3115.00 - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7234	113.1389	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72367	111.9133	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72278	116.7284	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72423	113.3087	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72423	113.3087	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72383	113.6061	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7336	121.6211	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7336	121.6211	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72469	113.8279	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72319	114.1673	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72318	115.8253	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.8008	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72325	113.3948	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72398	113.4224	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72312	113.385	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7236	113.206	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72302	113.7161	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	113.3121	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7231	113.0119	''P12:115:SPS:V99.1.PLAINS.YOAKUM''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72312	113.1362	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7231	113.1694	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	112.9823	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.1695	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.1802	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72367	112.976	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72314	114.3882	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.5185	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7239	113.686	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	129.6386	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	129.6479	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72384	112.9345	''P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72153	112.3686	''P42:345:OKGE:SB_BVTY7315''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72431	113.4487	''P42:345:OKGE:SB_WWHV7383''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	108.3996	''P42:345:SPS:POTTER-2R05''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.0204	''P44:69:SPS:BOARDMAN_8845''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.0914	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72383	113.0162	''P44:69:SPS:HUTCHISON_1834''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72309	113.8135	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72308	113.0655	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72321	113.1472	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72324	113.2529	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7233	113.2351	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.69858	105.4946	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72255	115.5789	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72255	115.5789	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72332	113.3022	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72332	113.3022	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72333	113.3186	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72333	113.3186	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72348	111.9341	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.68091	117.3366	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.68091	117.3366	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.71899	113.586	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74468	124.9038	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.74468	124.9038	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.3265	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.3265	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.3519	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.72315	113.3519	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	128.3244	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.79264	101.5679	'EDDY COUNTY INTERCHANGE - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77781	100.2464	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77781	100.2464	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7574	101.3859	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7574	101.3859	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	128.33	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	128.3335	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7033	103.3332	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.7033	103.3332	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77447	103.0236	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.77447	103.0236	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	124.476	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	124.485	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	1	124.492	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	2	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.6985	100.7436	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21WP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.6985	100.7436	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	26SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.317	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	26SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.3214	''P12:345:SPS:J17.1.TUCO.YOAKUM''
FDNS	06ALL	2	26SP	G16_125	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	1	127.3256	''P22:345:SPS:HITCHLAND_AT2''
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04912	100.4228	System Intact
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04912	100.4228	System Intact
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04912	100.11	System Intact
FDNS	06ALL	2	21SP	G16_125	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04912	100.11	System Intact
FDNS	06ALL	2	21WP	G16_125	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.0467	102.1528	System Intact
FDNS	06ALL	2	21WP	G16_125	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.0467	102.1528	System Intact
FDNS	06ALL	2	21WP	G16_125	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.0467	101.3538	System Intact
FDNS	06ALL	2	21WP	G16_125	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.0467	101.3538	System Intact
FDNSLock-Blown up	06ALL	2	21L	G16_125		Non-Converge	0	0	0.14862	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21L	G16_125		Non-Converge	0	0	0.49127	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21L	G16_125		Non-Converge	0	0	0.84848	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	2	21SP	G16_125		Non-Converge	0	0	0.56252	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	G16_125		Non-Converge	0	0	0.17579	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21WP	G16_125		Non-Converge	0	0	0.54467	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	G16_125		Non-Converge	0	0	2	9999	''P44:69:SPS:ARTESIA_4740''
FDNSLock-Blown up	06ALL	2	21WP	G16_125		Non-Converge	0	0	0.61726	9999	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	0	21L	G16_171	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.06012	111.2135	System Intact
FDNS	06ALL	0	21L	G16_171	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.06012	111.2135	System Intact
FDNS	06ALL	0	21WP	G16_171	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.07752	101.7193	System Intact
FDNS	06ALL	0	21WP	G16_171	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.07752	101.7193	System Intact
FDNS	06ALL	0	21L	G16_171	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	1022	1143	0.3385	110.1676	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	956	1042	0.40516	107.2823	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23332	102.8099	'ALLRED TAP - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27887	101.2505	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27887	101.2505	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27887	104.3799	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.27887	104.3799	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22921	101.4313	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22921	101.4313	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.981	System Intact
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.981	System Intact
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23209	102.7685	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23209	102.8626	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.2294	101.5409	'BOPCO_PKRLK3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.2329	102.9226	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.2329	102.9226	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23154	102.6433	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23154	102.6433	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22656	102.4568	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22656	102.4568	'CARLSBAD INTERCHANGE - PECOS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23302	102.9786	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23302	102.7005	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22882	101.5113	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22882	101.5113	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23131	102.5282	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23131	102.5282	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.21852	103.5387	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.21852	103.5387	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22892	102.4099	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22892	102.4099	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.38916	109.3351	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23203	102.5006	'GAINES COUNTY INTERCHANGE - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.2478	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	100.9446	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.3118	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.3135	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.284	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.2879	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.2868	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.2512	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.3922	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	100.4914	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.2247	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.1895	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.1572	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.4138	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.0039	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.5348	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.5205	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.5212	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	100.9767	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	101.4009	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	100.8913	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	100.5492	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	100.9044	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	100.8292	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	100.4801	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	100	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22677	102.069	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22677	102.069	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23188	102.4174	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23188	102.4174	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23203	102.6086	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23408	103.4221	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23408	103.4221	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23332	103.0002	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23302	101.5344	'LEA COUNTY REC-PLAINS INTERCHANGE - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23302	101.4443	'LEHMAN_TP 3115.00 - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23302	101.5267	'LEHMAN_TP 3115.00 - LYNTEGAR REC-PLAINS 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23188	103.1803	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23017	101.2118	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23017	101.2118	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22829	101.2051	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22829	101.3791	'National Enrichment Plant Tap - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.26823	104.194	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.26823	100.1936	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23158	102.7269	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23158	102.7269	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23358	102.8052	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.24978	103.7196	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23002	104.5513	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23011	105.4312	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22981	102.7086	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23161	102.485	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22928	103.4103	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22865	102.4345	''P12:115:SPS:T64.1.RNDALL.PULLMN''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23007	103.2625	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23406	102.9509	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22997	103.6066	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23209	103.1082	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23023	103.0784	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23302	102.7703	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23332	102.8808	''P12:115:SPS:V90.1.CUNN.MADDOX''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22989	102.7308	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22995	102.4865	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	103.1167	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	103.4895	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22943	102.6609	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	102.7061	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23203	102.7784	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22971	102.4973	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.2294	103.4638	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	103.6478	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22976	102.8807	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23385	102.8872	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	103.6598	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	102.9449	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	102.9041	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	104.6487	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	103.7386	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23208	102.902	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23193	102.7757	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23302	102.6275	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.21825	102.8059	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.21825	102.8059	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.24175	100.832	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.24175	100.832	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	102.4032	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.22972	102.4032	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.2294	101.1204	'RED_BLUFF 3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23195	101.4281	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.24578	102.7228	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.24578	102.7228	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.2548	108.5021	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.2548	108.5021	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23299	103.2262	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23299	103.2262	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23299	103.2262	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	17WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.23299	103.2262	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23054	112.4752	'ALLRED TAP - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22812	112.3072	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22812	112.3072	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	112.2866	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	112.2866	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	115.3177	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27536	115.3177	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2264	111.1178	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2264	111.1178	'ANDREWS 3115.00 - National Enrichment Plant Sub 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	111.6394	System Intact
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	111.6394	System Intact
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2293	112.5203	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2293	112.6057	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22659	111.1136	'BOPCO_PKRLK3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22995	112.5796	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22995	112.5796	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22866	112.2791	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22866	112.2791	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24846	108.7016	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24846	108.7016	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27287	110.4685	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27287	110.4685	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22736	113.6932	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23016	112.8476	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23016	112.413	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2123	105.9041	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21681	109.1462	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21681	109.1462	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22603	111.1375	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22603	111.1375	'CUNNINGHAM STATION - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22815	112.309	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22851	112.2214	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22851	112.2214	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22815	112.236	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22815	112.1346	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23184	112.1404	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23184	112.1404	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21584	113.0021	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21584	113.0021	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.38664	119.8216	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22925	112.1532	'GAINES COUNTY INTERCHANGE - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.6838	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.2342	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.8163	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.8171	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.7842	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.8316	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.8304	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.7428	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.9151	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.5053	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.742	'GEN525951 1-HALE_WND1 10.6900'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.6276	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.5947	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	108.8926	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	108.8928	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	108.6288	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	109.862	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.3868	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	108.0012	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	108.0047	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	105.6402	'GEN527653 1-MILO_WIND 10.6900'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	107.925	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	105.6446	'GEN527901 1-HOBBS PLANT #1 (CT)'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	105.6446	'GEN527902 1-HOBBS PLANT #2 (CT)'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	102.7795	'GEN527903 1-HOBBS PLANT #3 (ST)'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	111.0278	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.5726	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	108.6489	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	111.1577	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	111.1421	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	111.1423	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.537	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	111.0063	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.7158	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.2811	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.0849	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	108.8593	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.3427	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	107.2129	'GEN587113 1-G16-015-GEN10.4180'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.2083	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	100.6541	'GEN587423 1-G16-062-GEN10.6900'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	110.0109	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	108.7119	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	105.7536	'GEN587993 1-G16-121-GEN10.5500'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	102.7538	'GEN588023 1-G16-125-GEN10.6900'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	109.4338	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22716	112.779	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22716	112.779	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23129	112.2625	'Higg Switch Station - XTO_RUSSEL 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22908	112.2546	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22908	112.2546	'HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22925	112.2871	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23132	113.2574	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23132	113.2574	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23054	112.8116	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22908	113.0511	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22739	110.8673	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22739	110.8673	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22549	110.8389	'National Enrichment Plant Sub - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22549	111.0185	'National Enrichment Plant Tap - TARGA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2648	115.47	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22873	112.5024	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22873	112.5024	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23072	112.7766	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27287	123.214	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27287	123.214	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24663	113.9609	"P11:115:533:PRATT_P2:1:539687(P2)"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22722	114.0975	"P12:115:SPS:T19.1.TERRY.SULPHUR"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2273	115.3965	"P12:115:SPS:T20.1.SEGRVS.SULPHUR"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.227	112.1264	"P12:115:SPS:T24B.1.RSWLL.BRSHRF"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22877	112.1746	"P12:115:SPS:T37.1.SUNSET.PUCKT"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22648	113.1564	"P12:115:SPS:T42.1.WHOBBS.MADDOX"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22815	112.2806	"P12:115:SPS:T61.1.EDDY_S.PECOS"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22727	112.7604	"P12:115:SPS:T86.1.AMASTH.SPGDRW"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23129	112.8515	"P12:115:SPS:T93.1.HUTCH.MARTIN"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22716	112.8608	"P12:115:SPS:T99.1.LEA_NA.HOBBG"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2293	112.8106	"P12:115:SPS:U02.1.PORTA.GREYHND"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22739	112.8544	"P12:115:SPS:V51.1.HERFRD.DFSMTH"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23016	112.5003	"P12:115:SPS:V61.1.PCA.CRLBAD"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23054	112.625	"P12:115:SPS:V90.1.CUNN.MADDOX"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22708	112.4137	"P12:115:SPS:W01.1.CARSON.MARTIN"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22714	112.2443	"P12:115:SPS:W13.1.SMINLE.ROZ"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	112.8444	"P12:115:SPS:W24.1.MOOREE.LASLEY"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	113.2377	"P12:115:SPS:W25.1.PECOS.OCOTILLO"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22663	112.1805	"P12:115:SPS:W28.1.OCLTRE.COLE"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	112.4032	"P12:115:SPS:W36.1.TAYLOR.JNSDRW"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22925	112.4839	"P12:115:SPS:W38.1.RDBLUFF.WIPP"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2269	112.207	"P12:115:SPS:W40.1.WCANYON.DFSMTH"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22659	113.457	"P12:115:SPS:W41.2.HERFRD.DFSMTH"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	113.2799	"P12:115:SPS:W76.1.QUAHA.PCA"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22695	112.4297	"P12:230:SPS:4K60.1.RSVLT_S.HVDC"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23099	112.9319	"P12:230:SPS:K53.1.NICHLS.GRAPE"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22736	112.705	"P12:230:SPS:K76.1.HITCH.OCLTRE"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	106.7474	"P42:345:SPS:POTTER-2R05"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	113.6369	"P44:69:SPS:BOARDMAN_8845"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	112.592	"P44:69:SPS:CARLISLE_6885"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	112.1917	"P44:69:SPS:COUNTYLINE_8770"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	112.6556	"P44:69:SPS:FLOYD_CNTY_9731"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	114.4127	"P44:69:SPS:RIVERVIEW_R708"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22691	113.4765	"P44:69:SPS:SPEARMAN_1740_1755"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22922	112.9644	"P44:69:SPS:SULPHUR_6F25"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22908	112.7555	"P44:69:SPS:TERRY_CNTY_6700"
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23016	112.3066	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2244	111.1093	'PCA INTERCHANGE - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2244	111.1093	'PCA INTERCHANGE - QUAHADA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21558	112.2827	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21558	112.2827	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23872	111.1851	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23872	111.1851	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21262	107.6327	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22763	112.8542	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22763	112.8542	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22659	110.6352	'RED_BLUFF 3115.00 - WOLFCAMP_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22827	112.1678	'ROOSEVELT COUNTY INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT @1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22903	112.223	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22903	112.223	'ROOSEVELT COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 2'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22912	112.2324	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22912	112.2324	'Roosevelt County Interchange SOUTH - TOLK STATION EAST 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22912	111.0794	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22908	112.0992	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22908	112.0992	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22736	112.7035	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22736	112.7117	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24278	112.2643	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24278	112.2643	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2512	116.0929	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2512	116.0929	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22533	112.9277	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23722	110.9867	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23007	113.0276	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23007	113.0276	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23007	113.0561	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23007	113.0561	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23888	104.8866	'ALLRED TAP - INK_BASIN 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28111	104.6988	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28111	104.6988	'AMOCO SWITCHING STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28111	108.1119	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.28111	108.1119	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23499	103.7163	'AMOCO TAP - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23287	103.6044	'ANDREWS 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23287	103.6044	'ANDREWS 6230.00 - HOBBS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	104.1695	System Intact

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	104.1695	System Intact
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23488	104.9642	'BENSING 3115.00 - Higg Switch Station 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23488	105.0773	'BENSING 3115.00 - HOBBS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23592	105.057	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23592	105.057	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.25479	101.7154	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.25479	101.7154	'CHAVES COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23621	105.4184	'COCHRAN INTERCHANGE - LOST_DRAW 115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23621	104.8142	'COCHRAN INTERCHANGE - PACIFIC SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19926	103.2006	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.19926	103.2006	'CUNNINGHAM STATION - EDDY_NORTH 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22664	102.9078	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22664	102.9078	'CUNNINGHAM STATION - POTASH JUNCTION INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23409	104.8751	'CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23447	105.0613	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23447	105.0613	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23409	104.7623	'DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23409	104.7145	'DEAF SMITH REC-#24 - PARMER COUNTY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23844	104.8437	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23844	104.8437	'DENVER CITY INTERCHANGE N. - TERRY COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22041	105.5947	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22041	105.5947	'EDDY_NORTH 6230.00 - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2318	104.7003	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2318	104.7003	'EDDY_NORTH 6230.00 (HYO 10035628) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23192	104.6391	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23192	104.6391	'EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.38239	110.2514	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.3891	'GEN524485 1-CAPROCK WIND GEN'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.013	'GEN524751 1-BETHEL_WND110.6900'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.4664	'GEN524890 1-SNJN-WTGA1 10.6000'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.4681	'GEN524892 1-SNJN-WTG13 10.6000'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.4371	'GEN524894 1-SNJN-WTG15 10.6000'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.4416	'GEN524896 1-SNJN-WTG21 10.6000'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.4405	'GEN524898 1-SNJN-WTG22 10.6000'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.4026	'GEN524902 1-SNJN-WTG12 10.6000'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.551	'GEN524904 1-SNJN-WTG14 10.6000'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	102.6321	'GEN525561 1-TOLK GEN #1 24 KV'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	102.2141	'GEN525562 1-TOLK GEN #2 24 KV'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	102.8039	'GEN526331 1-JONES GEN #1 22 KV'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.281	'GEN526332 1-JONES GEN #2 21 KV'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	101.5635	'GEN527161 1-MUSTANG GEN #1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	101.5636	'GEN527162 1-MUSTANG GEN #2'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	101.3196	'GEN527163 1-MUSTANG GEN #3 22 KV'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	102.4335	'GEN527164 1-MUSTANG GEN #4 22 KV'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	102.3833	'GEN527165 1-Mustang Gen #5'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	100.1176	'GEN527166 1-MUSTANG_6 118.000'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	100.6712	'GEN527451 1-RSWL_SOLAR110.3420'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	100.675	'GEN527461 1-CHVS_SOLAR110.3420'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	102.8426	'GEN527881 1-CUNNINGHAM GEN #1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.6403	'GEN528224 1-HOPI_SUB 112.470'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.1314	'GEN528332 1-WILDCAT_WND134.500'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	101.2106	'GEN528361 1-MADDOX GEN #1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.71	'GEN528504 1-LEA_ROAD 112.470'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.7025	'GEN528546 1-S_JAL 112.470'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.7032	'GEN528560 1-DOLLARHIDE 112.470'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.0888	'GEN560363 1-ASGI1020-GEN0.6900'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.5532	'GEN560367 1-ASGI1021-GEN0.6900'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.4966	'GEN562270 1-G12-020-GEN 0.6900'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	102.9989	'GEN562483 1-G13_027_3 0.6900'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	102.6806	'GEN562538 1-G14_035_3 0.3420'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	101.516	'GEN562688 1-G15_014_3 0.6900'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	103.0204	'GEN562704 1-G15_020_3 0.3550'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	102.9237	'GEN587373 1-G16-056-GEN10.6900'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	102.6087	'GEN587473 1-G16-069-GEN10.5500'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	101.3004	'GEN587673 1-G15-099-GEN10.4000'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	102.0071	'GEN588353 1-G16-171-GEN10.5500'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22985	104.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22985	104.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22936	102.3437	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22936	102.3437	'HOBBS - KIOWA 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22936	102.315	'HOBBS (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23619	103.709	'HOCKLEY COUNTY INTERCHANGE - LAMB COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23619	103.709	'HOCKLEY COUNTY INTERCHANGE - LAMB COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.3345	107.1569	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23521	104.6295	'JOHNSON DRAW - OXY_WSEM_TP3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23675	105.5504	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23675	105.5504	'JOHNSON DRAW - TAYLOR SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2363	103.7373	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2363	103.7373	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23207	103.6341	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23207	103.6341	'KIOWA 7345.00 - N_LOVING 7345.00 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2334	103.5833	'LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2334	103.584	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2334	103.584	'LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23281	104.7866	'LEA COUNTY REC-LOVINGTON INTERCHANGE - LEA COUNTY REC-WAITS INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23283	105.2626	'LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23387	103.0463	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23387	103.0463	'MUSTANG STATION - SEMINOLE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27102	106.9414	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27102	102.7133	'NEEDMORE 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23456	104.7101	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23456	104.7101	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2347	104.942	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2347	104.942	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23676	104.8751	'OASIS INTERCHANGE - Roosevelt County Interchange SWITCH #4K33 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.25397	107.3037	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2331	107.2614	''P12:115:SPS:T19.1.TERRY.SULPHUR''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2332	108.43	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23294	104.845	''P12:115:SPS:T24B.1.RSWLL.BRSHRF''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23294	104.7243	''P12:115:SPS:T28.1.LAMTON.PLANTX''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23469	104.842	''P12:115:SPS:T37.1.SUNSET.PUCKT''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23247	105.6212	''P12:115:SPS:T42.1.WHOBBS.MADDOX''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23268	104.6166	''P12:115:SPS:T45.1.NORRIS.OASIS''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23409	104.8153	''P12:115:SPS:T61.1.EDDY_S.PECOS''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23311	105.5524	''P12:115:SPS:T86.1.AMASTH.SPGDRW''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23242	104.6299	''P12:115:SPS:T87.1.SPRMN.HANSFRD''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23629	105.0656	''P12:115:SPS:T93.1.HUTCH.MARTIN''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23308	105.8133	''P12:115:SPS:T99.1.LEA_NA.HOBBG''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23488	105.3782	''P12:115:SPS:U02.1.PORTA.GREYHND''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23386	105.5392	''P12:115:SPS:V51.1.HERFRD.DFSMTH''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23621	104.9242	''P12:115:SPS:V61.1.PCA.CRLBAD''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23257	104.6615	''P12:115:SPS:V93.1.PNTX_N.PNTX_S''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23315	104.6152	''P12:115:SPS:V99.1.PLAINS.YOAKUM''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23284	105.0215	''P12:115:SPS:W01.1.CARSON.MARTIN''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23293	104.7794	''P12:115:SPS:W13.1.SMINLE.ROZ''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	105.4717	''P12:115:SPS:W24.1.MOOREE.LASLEY''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	105.8946	''P12:115:SPS:W25.1.PECOS.OCOTILLO''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23282	104.8822	''P12:115:SPS:W28.1.OCLTRE.COLE''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	104.9456	''P12:115:SPS:W36.1.TAYLOR.JNSDRW''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23521	104.8336	''P12:115:SPS:W38.1.RDBLUFF.WIPP''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23281	104.7919	''P12:115:SPS:W40.1.WCANYON.DFSMTH''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	106.1301	''P12:115:SPS:W41.2.HERFRD.DFSMTH''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	105.9328	''P12:115:SPS:W76.1.QUAHA.PCA''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23289	105.2395	''P12:230:SPS:4K60.1.RSVLT_S.HVDC''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2334	103.5836	''P12:230:SPS:K39.1.CRLSLE.MLWAKEE''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23704	104.963	''P12:230:SPS:K53.1.NICHLS.GRAPE''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	106.4996	''P44:69:SPS:BOARDMAN_8845''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	105.3334	''P44:69:SPS:CARLISLE_6885''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	104.8984	''P44:69:SPS:COUNTYLINE_8770''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	105.3926	''P44:69:SPS:FLOYD_CNTY_9731''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	104.6314	''P44:69:SPS:GRAY_CNTY_2830''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	107.068	''P44:69:SPS:RIVERVIEW_R708''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	106.3264	''P44:69:SPS:SPEARMAN_1740_1755''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23546	105.8596	''P44:69:SPS:SULPHUR_6F25''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23518	105.5033	''P44:69:SPS:TERRY_CNTY_6700''
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23621	104.6841	'PACIFIC SUB - SUNDOWN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22068	104.7487	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.22068	104.7487	'PECOS INTERCHANGE - SEVEN RIVERS INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24496	103.0526	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24496	103.0526	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	104.6501	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23285	104.6501	'PNDEROSATP 3115.00 - PONDEROSA 3115.00 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23512	103.7053	'ROSWELL INTERCHANGE - TWEEDY SUB 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23518	104.7118	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23518	104.7118	'SEAGRAVES INTERCHANGE - SULPHUR INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24877	105.0825	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24877	105.0825	'SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.25701	110.5568	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.25701	110.5568	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24266	105.6194	'TOLK STATION TAP - TOLK STATION WEST 230KV CKT @1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23609	104.8937	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23609	104.8937	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23609	104.8937	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23609	104.8937	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23588	104.7291	'WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23588	104.7291	'WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.13656	121.6564	System Intact
FDNS	06ALL	0	21L	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.13656	121.6564	System Intact
FDNS	06ALL	0	21SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.15285	103.8842	System Intact
FDNS	06ALL	0	21SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.15285	103.8842	System Intact
FDNS	06ALL	0	21SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21519	106.3391	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21939	109.6921	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21939	109.6921	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.14983	101.2309	System Intact
FDNS	06ALL	0	21WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.14983	101.2309	System Intact
FDNSLock	06ALL	0	21WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.21194	103.7389	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.07809	100.2876	System Intact
FDNS	06ALL	0	21SP	G16_171	'TO->FROM'	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'	318.69	389	0.07809	100.2876	System Intact
FDNS	06ALL	0	18G	G16_171	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07448	113.3	System Intact
FDNS	06ALL	0	18G	G16_171	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07448	113.3	System Intact
FDNS	06ALL	0	21L	G16_171	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.04973	143.02	System Intact
FDNS	06ALL	0	21L	G16_171	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.04973	143.02	System Intact
FDNS	06ALL	0	21SP	G16_171	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.06833	109.3228	System Intact
FDNS	06ALL	0	21SP	G16_171	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.06833	109.3228	System Intact
FDNS	06ALL	0	21WP	G16_171	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.06387	125.0648	System Intact
FDNS	06ALL	0	21WP	G16_171	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.06387	125.0648	System Intact
FDNS	06ALL	0	21L	G16_171	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05096	100	System Intact
FDNS	06ALL	0	21L	G16_171	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.05096	100	System Intact
FDNS	06ALL	0	21L	G16_171	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.17796	104.4953	System Intact
FDNS	06ALL	0	21L	G16_171	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.17796	104.4953	System Intact
FDNS	06ALL	0	21L	G16_171	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.04774	103.1502	System Intact
FDNS	06ALL	0	21L	G16_171	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.04774	103.1502	System Intact
FDNSLock-Blown up	06ALL	0	17WP	G16_171		Non-Converge	1793	1793	0.19215	26.44219	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_171		Non-Converge	1022	1143	0.22988	59.59728	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_171		Non-Converge	740.37	740.37	0.22972	101.981	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_171		Non-Converge	318.69	318.69	0.08699	44.80788	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_171		Non-Converge	318.69	318.69	0.08699	44.80788	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_171		Non-Converge	0	0	0.84814	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	17WP	G16_171		Non-Converge	0	0	0.25062	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNSLock-Blown up	06ALL	0	17WP	G16_171		Non-Converge	0	0	0.44773	9999	"P42:345:SPS:TUCO-1XXX"
FDNSLock-Blown up	06ALL	0	17WP	G16_171		Non-Converge	0	0	0.60364	9999	"P44:69:SPS:BAILYCO_8860"
FDNSLock-Blown up	06ALL	0	18G	G16_171		Non-Converge	1793	1793	0.18607	31.21747	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_171		Non-Converge	1022	1143	0.22359	68.00926	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_171		Non-Converge	717.06	717.06	0.22691	111.6394	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_171		Non-Converge	956.09	956.09	0.22602	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_171		Non-Converge	956.09	956.09	0.22602	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_171		Non-Converge	0	0	0.41778	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	18G	G16_171		Non-Converge	0	0	0.24317	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNSLock-Blown up	06ALL	0	18G	G16_171		Non-Converge	0	0	0.24654	9999	"P42:345:OKGE:SB_BVTY7315"
FDNSLock-Blown up	06ALL	0	18G	G16_171		Non-Converge	0	0	0.43383	9999	"P42:345:SPS:TUCO-1XXX"
FDNSLock-Blown up	06ALL	0	18G	G16_171		Non-Converge	0	0	0.18272	9999	"P44:69:SPS:BAILYCO_8860"
FDNSLock-Blown up	06ALL	0	18SP	G16_171		Non-Converge	1793	1793	0.19229	29.57274	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_171		Non-Converge	956	1042	0.2224	61.96857	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_171		Non-Converge	717.06	717.06	0.23285	104.1695	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_171		Non-Converge	318.69	318.69	0.08893	44.02533	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_171		Non-Converge	318.69	318.69	0.08893	44.02533	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_171		Non-Converge	0	0	0.98037	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	18SP	G16_171		Non-Converge	0	0	0.24355	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNSLock-Blown up	06ALL	0	18SP	G16_171		Non-Converge	0	0	0.44926	9999	"P42:345:SPS:TUCO-1XXX"
FDNSLock-Blown up	06ALL	0	18SP	G16_171		Non-Converge	0	0	0.66827	9999	"P44:69:SPS:BAILYCO_8860"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	500.8	556.5	0.07384	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	500.8	556.5	0.07384	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	1793	1793	0.17234	42.62265	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	1793	1793	0.13471	29.83855	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	478	502	0.08362	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	478	502	0.08362	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	318.69	318.69	0.07155	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	318.69	318.69	0.07155	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	1195	1195	0.07266	32.97946	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	478.04	478.04	0.05272	11.44848	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	478.04	478.04	0.05272	11.44848	'CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	439	439	0.03155	59.82893	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	421	439	0.06012	111.2135	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	1793	1793	0.06621	22.60611	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	1022	1143	0.19378	85.48402	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	717.06	717.06	0.13656	121.6564	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	287	316	0.03155	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	287	316	0.03155	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	956.09	956.09	0.08053	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	956.09	956.09	0.08053	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	956.1	1051.7	0.08053	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	956.1	1051.7	0.08053	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	1793	1793	0.06621	23.6207	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	717	789	0.06693	46.87057	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	1195	1195	0.12305	36.51713	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	318.69	318.69	0.04973	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	318.69	318.69	0.04973	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	433	500	0.05096	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	433	500	0.05096	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	497.16	546.96	0.05318	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	497.16	546.96	0.05318	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	956.09	956.09	0.17796	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	956.09	956.09	0.17796	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	956.1	1051.7	0.09501	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	956.1	1051.7	0.09501	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	1792	1792	0.16817	13.85183	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	1792	1792	0.16817	13.85183	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	318.69	318.69	0.04774	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	318.69	318.69	0.04774	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	375.26	412.71	0.07359	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	375.26	412.71	0.07359	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	318.69	318.69	0.05272	60.71251	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	318.69	318.69	0.05272	60.71251	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.12025	9999	"P12:230:SPS:K76.1.HITCH.OCLTRE"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.56357	9999	"P12:345:SPS:J18.1.HOBBS.YOAKUM"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.21032	9999	"P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.10846	9999	"P23:345:SUNC:HLC_BRK382"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.13388	9999	"P23:345:SUNC:MG_BRK788"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.08053	9999	"P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.11071	9999	"P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.18337	9999	"P42:345:OKGE:SB_BVTY7315"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.09168	9999	"P42:345:OKGE:SB_BVTY7317"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.12305	9999	"P42:345:OKGE:SB_CION7384"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.12305	9999	"P42:345:OKGE:SB_MICO7311"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.12305	9999	"P42:345:OKGE:SB_MICO7312"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.12305	9999	"P42:345:OKGE:SB_MICO7381"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.12445	9999	"P42:345:OKGE:SB_WWHV7383"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.08053	9999	"P42:345:SPS:HOLCOMB-HC382"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.35956	9999	"P42:345:SPS:TUCO-1XXX"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	0	0	0.45086	9999	"P44:69:SPS:BAILYCO_8860"
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	1195	1195	0.1816	48.61858	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	504	555	0.06012	96.02361	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	504	555	0.06012	95.71223	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	560	560	0.07079	57.18097	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	560	560	0.07079	57.18097	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	1792	1792	0.28198	17.74159	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_171		Non-Converge	1792	1792	0.28198	17.74159	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	1793	1793	0.20453	37.78229	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	1793	1793	0.16054	28.82343	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	353	353	0.08278	86.61529	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	956	1042	0.23291	76.05145	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	717.06	717.06	0.15285	103.8842	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	318.69	389	0.07809	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	318.69	389	0.07809	100.2876	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	318.69	318.69	0.06833	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	318.69	318.69	0.06833	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	433	500	0.07013	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	433	500	0.07013	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	956.09	956.09	0.22231	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	956.09	956.09	0.22231	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	318.69	318.69	0.06134	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	318.69	318.69	0.06134	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	318.69	318.69	0.05908	42.68379	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	318.69	318.69	0.05908	42.68379	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	0	0	0.16555	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	0	0	0.61585	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	0	0	0.25568	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	0	0	0.10446	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	0	0	0.14217	9999	''P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	0	0	0.23439	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	0	0	0.17437	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	0	0	0.10446	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	0	0	0.42132	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	0	0	0.43791	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	1195	1195	0.19901	56.72121	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	504	555	0.08278	48.59974	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_171		Non-Converge	504	555	0.08278	48.27787	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	500.8	556.5	0.07432	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	500.8	556.5	0.07432	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1793	1793	0.19592	41.74516	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1793	1793	0.15376	29.26695	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1793	1793	0.19592	41.74516	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	557	557	0.08538	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	557	557	0.08538	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	318.69	318.69	0.07414	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	318.69	318.69	0.07414	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	557	557	0.08538	46.1797	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1195	1195	0.08793	33.5474	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1792	1792	0.11097	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1792	1792	0.11097	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1792	1792	0.11097	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1792	1792	0.11097	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	439	439	0.03935	63.4582	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	421	439	0.07752	101.7193	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1793	1793	0.08033	21.23961	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	956	956	0.13201	62.35377	'CIMARRON - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1022	1143	0.22279	81.02731	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	740.37	740.37	0.14983	101.2309	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	329.05	389	0.07586	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	329.05	389	0.07586	77.71954	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	329.05	389	0.07586	77.71954	'DEAF SMITH COUNTY INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	956.09	956.09	0.0991	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	956.09	956.09	0.0991	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	987.2	1082.8	0.0991	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	987.2	1082.8	0.0991	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1793	1793	0.08033	23.59854	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	717	789	0.07076	40.22197	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1195	1195	0.13201	41.01586	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	345.78	345.78	0.06387	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	345.78	345.78	0.06387	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	500	556	0.06566	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	500	556	0.06566	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	552.14	607.51	0.0664	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	552.14	607.51	0.0664	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1036.76	1036.76	0.21102	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1036.76	1036.76	0.21102	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	987.2	1082.8	0.11693	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	987.2	1082.8	0.11693	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1792	1792	0.18458	7.996662	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1792	1792	0.18458	7.996662	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	551.74	607.11	0.04501	25.11317	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	551.74	607.11	0.04501	25.11317	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1195	1195	0.11576	50.44144	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	329.05	329.05	0.05791	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	329.05	329.05	0.05791	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	449.76	494.77	0.07594	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	449.76	494.77	0.07594	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.07481	9999	''P11:115:533:PRATT_P2:1:539687(P2)''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.03205	9999	''P12:115:SPS:T20.1.SEGRVS.SULPHUR''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.04025	9999	''P12:230:SPS:K45.2.PLANTX.TOLK''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.15504	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.03164	9999	''P12:345:SPS:J01.1.TUCO.OKU(520)''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.5076	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.09259	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.24462	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.13003	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.16394	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.0991	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.13401	9999	''P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.22194	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.11097	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.11097	9999	''P42:345:OKGE:SB_BVTY7385''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.13201	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.13201	9999	''P42:345:OKGE:SB_MICO7301''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.13201	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.13201	9999	''P42:345:OKGE:SB_MICO7312''

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.13201	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.16718	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.0991	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.40348	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	0	0	0.37449	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1195	1195	0.19246	54.77373	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	560.9	617	0.07752	66.37998	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	560.9	617	0.07752	66.11691	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1195	1195	0.11576	57.37275	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	560	560	0.06932	78.41681	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	560	560	0.06932	78.41681	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1792	1792	0.30744	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	1792	1792	0.30744	12.87691	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	619	699	0.0423	70.22913	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	619	699	0.0423	70.22913	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	615	699	0.0423	70.6859	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_171		Non-Converge	615	699	0.0423	70.6859	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNSLock-Blown up	06ALL	0	26SP	G16_171		Non-Converge	717.06	717.06	0.15415	85.52613	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_171		Non-Converge	318.69	318.69	0.05951	29.08259	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_171		Non-Converge	318.69	318.69	0.05951	29.08259	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	26SP	G16_171		Non-Converge	0	0	0.54045	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	26SP	G16_171		Non-Converge	0	0	0.35948	9999	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	2	18G	G16_171	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.27121	103.6849	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.21855	101.9113	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.25474	105.8431	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.25474	111.1664	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_171	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24291	114.9962	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_171	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.24291	120.3499	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	1022	1143	0.33856	105.4072	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	956	1042	0.40632	105.5371	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.26454	100.7726	'G16171_T 230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23291	104.78	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.23291	104.78	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21405	100.7165	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	2	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21561	104.8104	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21561	104.8104	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20597	100.9171	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20597	100.9171	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27446	105.3737	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	18G	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27446	105.3737	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.17155	112.4329	System Intact
FDNS	06ALL	2	21L	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.17155	112.4329	System Intact
FDNS	06ALL	2	21L	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24148	116.111	'G16171_T 230.00 - INK_BASIN 6230.00 230KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20837	122.6407	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20837	122.6407	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21955	115.0667	'INK_BASIN 6230.00 - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24563	124.9038	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.24563	124.9038	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2344	100.2464	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.2344	100.2464	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21689	101.3859	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.21689	101.3859	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20663	103.3332	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.20663	103.3332	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27544	103.0236	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	717.06	717.06	0.27544	103.0236	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.20182	100.7436	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21WP	G16_171	'FROM->TO'	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'	740.37	740.37	0.20182	100.7436	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21SP	G16_171	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04704	100.4228	System Intact
FDNS	06ALL	2	21SP	G16_171	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04704	100.4228	System Intact
FDNS	06ALL	2	21SP	G16_171	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04704	100.11	System Intact
FDNS	06ALL	2	21SP	G16_171	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.04704	100.11	System Intact
FDNS	06ALL	2	21WP	G16_171	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04462	102.1528	System Intact
FDNS	06ALL	2	21WP	G16_171	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04462	102.1528	System Intact
FDNS	06ALL	2	21WP	G16_171	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04462	101.3538	System Intact
FDNS	06ALL	2	21WP	G16_171	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.04462	101.3538	System Intact
FDNSLock-Blown up	06ALL	2	21L	G16_171		Non-Converge	0	0	0.16038	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21L	G16_171		Non-Converge	0	0	0.38714	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21L	G16_171		Non-Converge	0	0	0.47433	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	2	21SP	G16_171		Non-Converge	0	0	0.45839	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	G16_171		Non-Converge	0	0	0.18755	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21WP	G16_171		Non-Converge	0	0	0.44054	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	G16_171		Non-Converge	0	0	0.40006	9999	''P44:69:SPS:BAILYCO_8860''
FDNS	06ALL	0	21SP	G16_172	'FROM->TO'	'CASTRO COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1'	159	174	0.08846	100.1125	System Intact
FDNS	06ALL	0	21SP	G16_172	'FROM->TO'	'CASTRO COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1'	159	174	0.08846	100.1125	System Intact
FDNS	06ALL	0	21WP	G16_172	'FROM->TO'	'CASTRO COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1'	160	177	0.08822	103.3307	System Intact
FDNS	06ALL	0	21WP	G16_172	'FROM->TO'	'CASTRO COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1'	160	177	0.08822	103.3307	System Intact
FDNS	06ALL	0	21L	G16_172	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.08605	111.2135	System Intact
FDNS	06ALL	0	21L	G16_172	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.08605	111.2135	System Intact
FDNS	06ALL	0	21WP	G16_172	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.10344	101.7193	System Intact
FDNS	06ALL	0	21WP	G16_172	'TO->FROM'	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'	421	439	0.10344	101.7193	System Intact
FDNS	06ALL	0	21L	G16_172	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	1022	1143	0.23197	110.1676	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	956	1042	0.29862	107.2823	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.09045	113.3	System Intact
FDNS	06ALL	0	18G	G16_172	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.09045	113.3	System Intact
FDNS	06ALL	0	21L	G16_172	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07069	143.02	System Intact
FDNS	06ALL	0	21L	G16_172	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.07069	143.02	System Intact
FDNS	06ALL	0	21SP	G16_172	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.08928	109.3228	System Intact
FDNS	06ALL	0	21SP	G16_172	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	318.69	318.69	0.08928	109.3228	System Intact
FDNS	06ALL	0	21WP	G16_172	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.08482	125.0648	System Intact
FDNS	06ALL	0	21WP	G16_172	'TO->FROM'	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	345.78	345.78	0.08482	125.0648	System Intact
FDNS	06ALL	0	21L	G16_172	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.07286	100	System Intact
FDNS	06ALL	0	21L	G16_172	'FROM->TO'	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'	433	500	0.07286	100	System Intact
FDNS	06ALL	0	21L	G16_172	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.1902	104.4953	System Intact

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	21L	G16_172	'TO->FROM'	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'	956.09	956.09	0.1902	104.4953	System Intact
FDNS	06ALL	0	21L	G16_172	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.06282	103.1502	System Intact
FDNS	06ALL	0	21L	G16_172	'TO->FROM'	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'	318.69	318.69	0.06282	103.1502	System Intact
FDNSLock-Blown up	06ALL	0	17WP	G16_172		Non-Converge	1793	1793	0.16498	26.44219	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_172		Non-Converge	1022	1143	0.20456	59.59728	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	17WP	G16_172		Non-Converge	0	0	0.50506	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	17WP	G16_172		Non-Converge	0	0	0.22164	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	17WP	G16_172		Non-Converge	0	0	0.33526	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	17WP	G16_172		Non-Converge	0	0	0.04544	9999	''P44:69:SPS:BAILYCO_8860''
FDNSLock-Blown up	06ALL	0	18G	G16_172		Non-Converge	1793	1793	0.1589	31.21747	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_172		Non-Converge	1022	1143	0.19827	68.00926	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_172		Non-Converge	956.09	956.09	0.22669	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_172		Non-Converge	956.09	956.09	0.22669	73.6073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18G	G16_172		Non-Converge	0	0	0.27564	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	18G	G16_172		Non-Converge	0	0	0.2142	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	18G	G16_172		Non-Converge	0	0	0.271	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	18G	G16_172		Non-Converge	0	0	0.32138	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	18SP	G16_172		Non-Converge	1793	1793	0.16515	29.57274	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_172		Non-Converge	956	1042	0.1969	61.96857	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	18SP	G16_172		Non-Converge	0	0	0.37742	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	18SP	G16_172		Non-Converge	0	0	0.21439	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	18SP	G16_172		Non-Converge	0	0	0.3366	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	500.8	556.5	0.12045	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	500.8	556.5	0.12045	40.76584	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	1793	1793	0.13203	42.62265	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	1793	1793	0.10729	29.83855	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	478	502	0.07848	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	478	502	0.07848	43.74874	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	318.69	318.69	0.07052	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	318.69	318.69	0.07052	81.52836	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	1195	1195	0.07996	32.97946	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	439	439	0.03591	59.82893	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	421	439	0.08605	111.2135	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	1793	1793	0.07487	22.60611	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	675	743	0.05013	30.2285	'CHISHOLM7 345.00 () 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	1022	1143	0.15597	85.48402	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	287	316	0.03591	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	287	316	0.03591	88.61819	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	956.09	956.09	0.08861	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	956.09	956.09	0.08861	45.89315	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	956.1	1051.7	0.08861	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	956.1	1051.7	0.08861	43.48254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	1793	1793	0.07487	23.6207	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	717	789	0.04697	46.87057	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	1195	1195	0.11306	36.51713	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	318.69	318.69	0.07069	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	318.69	318.69	0.07069	143.02	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	433	500	0.07286	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	433	500	0.07286	99.9598	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	497.16	546.96	0.07153	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	497.16	546.96	0.07153	66.42976	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	956.09	956.09	0.1902	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	956.09	956.09	0.1902	104.4953	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	956.1	1051.7	0.10457	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	956.1	1051.7	0.10457	55.27072	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	318.69	318.69	0.06282	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	318.69	318.69	0.06282	103.1502	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	375.26	412.71	0.18779	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	375.26	412.71	0.18779	62.15376	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.03555	9999	''P12:115:SPS:T55.1.DC_N.MUSTG''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.17209	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.28385	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.1672	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.12179	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.14501	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.08861	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.14258	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.22254	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.11127	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.11306	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.11306	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.11306	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.11306	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.09674	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.08861	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	0	0	0.26863	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	1195	1195	0.07842	48.61858	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	559	559	0.11178	63.19107	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	559	559	0.11178	63.19107	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	504	555	0.08605	96.02361	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	504	555	0.08605	95.71223	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	560	560	0.14429	57.18097	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21L	G16_172		Non-Converge	560	560	0.14429	57.18097	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	1793	1793	0.16421	37.78229	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	1793	1793	0.13311	28.82343	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	353	353	0.1087	86.61529	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	956	1042	0.1951	76.05145	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	318.69	318.69	0.08928	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	318.69	318.69	0.08928	109.3228	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	433	500	0.09204	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	433	500	0.09204	61.94121	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	956.09	956.09	0.23455	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	956.09	956.09	0.23455	80.00728	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	318.69	318.69	0.07642	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	318.69	318.69	0.07642	93.35669	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	0	0	0.2174	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	0	0	0.33614	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	0	0	0.21256	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	0	0	0.11254	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	0	0	0.17404	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	0	0	0.27356	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	0	0	0.14724	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	0	0	0.11254	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	0	0	0.33038	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	1195	1195	0.09582	56.72121	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	504	555	0.1087	48.59974	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21SP	G16_172		Non-Converge	504	555	0.1087	48.27787	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	500.8	556.5	0.12093	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	500.8	556.5	0.12093	46.7541	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1793	1793	0.1556	41.74516	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1793	1793	0.12634	29.26695	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1793	1793	0.1556	41.74516	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	557	557	0.08025	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	557	557	0.08025	46.1797	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	318.69	318.69	0.07307	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	318.69	318.69	0.07307	80.29435	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	557	557	0.08025	46.1797	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1195	1195	0.09523	33.5474	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1792	1792	0.13056	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1792	1792	0.13056	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1792	1792	0.13056	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1792	1792	0.13056	27.91069	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	439	439	0.04371	63.4582	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	421	439	0.10344	101.7193	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1793	1793	0.089	21.23961	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	956	956	0.12202	62.35377	'CIMARRON - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1022	1143	0.18498	81.02731	'CRAWFISH_DR 345.00 - OKLAUNION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1195	1195	0.05568	38.97808	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	956.09	956.09	0.10719	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	956.09	956.09	0.10719	40.13333	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	987.2	1082.8	0.10719	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	987.2	1082.8	0.10719	36.52774	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1793	1793	0.089	23.59854	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	717	789	0.0508	40.22197	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1195	1195	0.12202	41.01586	'GRACEMONT - MINCO 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	345.78	345.78	0.08482	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	345.78	345.78	0.08482	125.0648	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	500	556	0.08756	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	500	556	0.08756	73.07159	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	238.42	238.42	0.03417	54.75817	'HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	238.42	238.42	0.03417	54.75817	'HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	552.14	607.51	0.08475	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	552.14	607.51	0.08475	49.84722	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1036.76	1036.76	0.22326	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1036.76	1036.76	0.22326	87.76562	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	987.2	1082.8	0.12649	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	987.2	1082.8	0.12649	47.74686	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1195	1195	0.10674	50.44144	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	329.05	329.05	0.073	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	329.05	329.05	0.073	99.36015	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	449.76	494.77	0.19013	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	449.76	494.77	0.19013	59.45088	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.17643	9999	''P12:115:SPS:T06.1.SPRMN.PRNGLE''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.03628	9999	''P12:115:SPS:V32.1.TXSCO.ELB(534)''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.05225	9999	''P12:230:SPS:K45.2.PLANTX.TOLK''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.20689	9999	''P12:230:SPS:K76.1.HITCH.OCLTRE''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.03959	9999	''P12:345:SPS:J01.1.TUCO.OKU(520)''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.43273	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.06731	9999	'P23:345:AEPW:LAWTON EASTSIDE CB 3425A NBTB-G16091TAP''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.20149	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.14337	9999	''P23:345:SUNC:HLC_BRK382''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.17507	9999	''P23:345:SUNC:MG_BRK788''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.10719	9999	''P41:34.5:SPS:BUFF21-GEN-OR85_21S_25S''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.16588	9999	'P42:345:OKGE:SB_BVTY7307-BADGER-G1603TAP''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.26111	9999	''P42:345:OKGE:SB_BVTY7315''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.13056	9999	''P42:345:OKGE:SB_BVTY7317''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.13056	9999	''P42:345:OKGE:SB_BVTY7385''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.12202	9999	''P42:345:OKGE:SB_CION7384''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.12202	9999	''P42:345:OKGE:SB_MICO7301''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.12202	9999	''P42:345:OKGE:SB_MICO7311''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.12202	9999	''P42:345:OKGE:SB_MICO7312''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.12202	9999	''P42:345:OKGE:SB_MICO7381''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.14005	9999	''P42:345:OKGE:SB_WWHV7383''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.10719	9999	''P42:345:SPS:HOLCOMB-HC382''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	0	0	0.31254	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1195	1195	0.08928	54.77373	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	559	559	0.13398	40.01927	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	559	559	0.13398	40.01927	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	164.52	164.52	0.03036	88.89139	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	164.52	164.52	0.03036	88.89139	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	560.9	617	0.10344	66.37998	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	560.9	617	0.10344	66.11691	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	1195	1195	0.10674	57.37275	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	552.14	607.51	0.21259	25.09101	'SWISHER COUNTY INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	560	560	0.14281	78.41681	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	560	560	0.14281	78.41681	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	619	699	0.12986	70.22913	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	619	699	0.12986	70.22913	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	615	699	0.12986	70.6859	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNSLock-Blown up	06ALL	0	21WP	G16_172		Non-Converge	615	699	0.12986	70.6859	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNSLock-Blown up	06ALL	0	26SP	G16_172		Non-Converge	0	0	0.46558	9999	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	18G	G16_172	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.25506	103.6849	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.20162	101.9113	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.23781	105.8431	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.23781	111.1664	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_172	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.22598	114.9962	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_172	'TO->FROM'	'CIMARRON - MINCO 345KV CKT 1'	956	956	0.22598	120.3499	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	1022	1143	0.24532	105.4072	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'TO->FROM'	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'	956	1042	0.31309	105.5371	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.05438	100.4228	System Intact
FDNS	06ALL	2	21SP	G16_172	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.05438	100.4228	System Intact
FDNS	06ALL	2	21SP	G16_172	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.05438	100.11	System Intact
FDNS	06ALL	2	21SP	G16_172	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	272	316	0.05438	100.11	System Intact
FDNS	06ALL	2	21WP	G16_172	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.05196	102.1528	System Intact
FDNS	06ALL	2	21WP	G16_172	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.05196	102.1528	System Intact
FDNS	06ALL	2	21WP	G16_172	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.05196	101.3538	System Intact
FDNS	06ALL	2	21WP	G16_172	'FROM->TO'	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	287	316	0.05196	101.3538	System Intact
FDNSLock-Blown up	06ALL	2	21L	G16_172		Non-Converge	0	0	0.12435	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21L	G16_172		Non-Converge	0	0	0.31145	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21SP	G16_172		Non-Converge	0	0	0.38269	9999	''P42:345:SPS:TUCO-1XXX''
FDNSLock-Blown up	06ALL	2	21WP	G16_172		Non-Converge	0	0	0.15151	9999	''P23:345:AEPW:LAWTON EASTSIDE CB 3429B NBTB''
FDNSLock-Blown up	06ALL	2	21WP	G16_172		Non-Converge	0	0	0.36484	9999	''P42:345:SPS:TUCO-1XXX''
FDNS	06ALL	2	21L	G16_172	'FROM->TO'	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'	559	559	0.2066	144.6476	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	21L	G16_172	'FROM->TO'	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'	559	559	0.2066	144.4356	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	21SP	G16_172	'FROM->TO'	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'	559	559	0.24933	101.0826	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	21WP	G16_172	'FROM->TO'	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'	559	559	0.23925	129.9269	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	21WP	G16_172	'FROM->TO'	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'	559	559	0.23925	127.6278	''P12:345:SPS:J18.1.HOBBS.YOAKUM''
FDNS	06ALL	2	21WP	G16_172	'FROM->TO'	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'	559	559	0.23053	121.4035	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_172	'FROM->TO'	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'	559	559	0.23053	120.1632	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	644	0.20827	119.0772	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_172	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	644	0.20827	119.0772	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_172	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	644	0.20827	112.9648	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_172	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	560	644	0.20827	112.9648	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21WP	G16_172	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	619	699	0.23271	100.4308	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21WP	G16_172	'FROM->TO'	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	619	699	0.23271	100.4308	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_172	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	559	643	0.20827	118.1293	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_172	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	559	643	0.20827	118.1293	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_172	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	559	643	0.20827	113.1779	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_172	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	559	643	0.20827	113.1779	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21WP	G16_172	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	615	699	0.23271	100.4308	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21WP	G16_172	'FROM->TO'	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'	615	699	0.23271	100.4308	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'

G-V: VOLTAGE POWER FLOW ANALYSIS (CONSTRAINTS REQUIRING TRANSMISSION REINFORCEMENT)

Legend:

Column	Definition
Solution	Solution Method
Group	Model Case Identification: • ##ALL: ERIS-HVER • 00: ERIS-LVER • ##NR or 00NR: NRIS
Scenario	Upgrade Scenario Identification
Season	Model Year and Season
Source	Gen ID producing the TDF above the limit for the constraint
Monitored Element	Monitored Bus Identification
BC Voltage (pu)	Pre-transfer, post-contingency voltage
TC Voltage (pu)	Post-transfer, post-contingency voltage
Voltage Differ (pu)	TC Voltage - BC Voltage
VINIT (pu)	Post-transfer, pre-contingency (system intact) voltage
VMIN (pu)	Lower Voltage Limit
VMAX (pu)	Upper Voltage Limit
TDF	Transfer Distribution Factor for the Source
Contingency	Contingency Description

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	ASGI_16_09	'AMARILLO SOUTH INTERCHANGE 230KV'	1.003064	0.931739	0.0713246	0.93174	0.95	1.05	0.08952	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.05317	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.05317	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'BADGER 345.00 345KV'	1.010793	0.94727	0.0635229	0.94727	0.95	1.05	0.06482	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.05116	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'BORDER 7345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05767	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.05116	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04462	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.17613	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.17613	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.20831	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.20831	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'BORDER 7345.00 345KV'	0.973293	0.916543	0.0567498	0.91654	0.95	1.05	0.1997	System Intact
FDNSLock	06ALL	2	18SP	ASGI_16_09	'BOWERS INTERCHANGE 69KV'	1.034897	1.071238	0.0363411	1.03926	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'BOWERS TAP 69KV'	1.024455	1.061259	0.0368036	1.02888	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.08109	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.08109	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'BUSHLAND INTERCHANGE 230KV'	1.008722	0.932744	0.0759785	0.93274	0.95	1.05	0.07861	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.08898	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.08898	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'BVRCNTY7 345.00 345KV'	1.006863	0.937326	0.0695368	0.93733	0.95	1.05	0.10826	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.96842	0.890848	0.0775719	0.90812	0.9	1.05	0.04465	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.969176	0.897907	0.0712687	0.90812	0.9	1.05	0.09118	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.96764	0.893942	0.0736985	0.90812	0.9	1.05	0.08522	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.966475	0.893047	0.0734277	0.90812	0.9	1.05	0.14196	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.967369	0.896732	0.0706367	0.90812	0.9	1.05	0.08522	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968277	0.899867	0.0684105	0.90812	0.9	1.05	0.07677	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968249	0.887365	0.0808841	0.90812	0.9	1.05	0.07677	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.967124	0.893546	0.0735774	0.90812	0.9	1.05	0.14196	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.967324	0.892308	0.0750153	0.90812	0.9	1.05	0.12109	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.967003	0.893665	0.0733384	0.90812	0.9	1.05	0.12109	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.966592	0.877529	0.0890628	0.90812	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.966592	0.877529	0.0890628	0.90812	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.06137	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.06137	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.21692	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.21692	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.21692	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.21692	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'CHISHOLM6 230.00 230KV'	1.000288	0.948971	0.0513175	0.94897	0.95	1.05	0.07708	System Intact
FDNSLock	06ALL	2	18SP	ASGI_16_09	'COBRN_CREEK3115.00 115KV'	1.025514	1.086157	0.060643	1.03258	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.97954	0.868599	0.110941	0.88811	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.97954	0.868599	0.110941	0.88811	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.986024	0.894426	0.0915983	0.90018	0.9	1.05	0.26118	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.985125	0.893163	0.0919619	0.88811	0.9	1.05	0.23307	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.986513	0.894866	0.0916473	0.90018	0.9	1.05	0.26118	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.979218	0.874262	0.104955	0.88811	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.9807	0.888114	0.0925859	0.88811	0.95	1.05	0.23307	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.9807	0.888114	0.0925859	0.88811	0.95	1.05	0.23307	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'CRAWFISH_DR 345.00 345KV'	0.986551	0.900183	0.0863677	0.90018	0.95	1.05	0.26118	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.0702	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.0702	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.991095	0.92469	0.0664043	0.92469	0.95	1.05	0.06797	System Intact
FDNSLock	06ALL	2	18SP	ASGI_16_09	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.92	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980336	0.871074	0.109263	0.89054	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980336	0.871074	0.109263	0.89054	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.986993	0.898431	0.0885621	0.89054	0.9	1.05	0.23307	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980069	0.876909	0.10316	0.89054	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.039841	1.070043	0.0302023	1.07636	0.9	1.05	0.06081	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.06647	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.06647	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.06647	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.06647	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.034487	1.055636	0.0211487	1.07636	0.9	1.05	0.03527	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03527	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03527	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.06817	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.06817	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.06817	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.06817	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.04416	1.070633	0.0264726	1.07636	0.9	1.05	0.10249	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04456	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04456	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03956	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03956	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04547	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	ASGI_16_09	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04547	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'EVA REGULATOR 69KV'	1	0.891847	0.108153	0.90099	0.9	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	0.99923	0.893822	0.105408	0.90694	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	0.99923	0.893822	0.105408	0.90694	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	0.996877	0.891114	0.105763	0.90694	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G06-44 115.00 115KV'	1.003684	0.898703	0.104981	0.91176	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G06-44 115.00 115KV'	1.003684	0.898703	0.104981	0.91176	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G06-44 115.00 115KV'	1.001334	0.896008	0.105326	0.91176	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14-1 115.00 115KV'	1.002085	0.896928	0.105157	0.91001	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14-1 115.00 115KV'	1.002085	0.896928	0.105157	0.91001	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14-1 115.00 115KV'	0.99973	0.894228	0.105502	0.91001	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.05116	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'G1149G1504 345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05767	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.05116	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04462	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'G16-045-SUB1345.00 345KV'	1	1.264422	0.264422	1.25588	0.9	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'G16-045-SUB2345.00 345KV'	1	1.2884	0.2884	1.27969	0.9	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'GEN-2016-057345.00 345KV'	1	1.276997	0.276997	1.26837	0.9	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'GEN-2016-057345.00 345KV'	1	1.324082	0.324082	1.31513	0.9	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	0.987686	0.8893	0.098386	0.89793	0.9	1.05	0.0635	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	0.987627	0.890547	0.0970804	0.89794	0.9	1.05	0.05581	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	0.987721	0.890309	0.097412	0.89793	0.9	1.05	0.0635	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	0.987658	0.887568	0.10009	0.89793	0.9	1.05	0.0635	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	0.986245	0.893592	0.0926524	0.89794	0.9	1.05	0.11683	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	0.986045	0.890344	0.0957015	0.89794	0.9	1.05	0.05163	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	1	0.889226	0.110774	0.89794	0.9	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	0.987716	0.887688	0.100028	0.89793	0.9	1.05	0.0635	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	0.98772	0.890597	0.0971233	0.89793	0.9	1.05	0.0635	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.04937	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.04937	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'GRAPEVINE INTERCHANGE 230KV'	0.987715	0.897935	0.0897798	0.89794	0.95	1.05	0.0635	System Intact
FDNSLock	06ALL	2	18SP	ASGI_16_09	'Graves Sub 115KV'	1.02286	1.073505	0.0506449	1.02368	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'GRAVES SUB 69KV'	1.019223	1.076678	0.0574549	1.02628	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'GREENBELT REC-KELLERVILLE 69KV'	1.022793	1.059641	0.0368478	1.02722	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'GREENBELT REC-WHEELER 69KV'	1.018432	1.075929	0.0574974	1.02549	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.990685	0.878241	0.112444	0.89231	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.990685	0.878241	0.112444	0.89231	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.9924	0.899665	0.092734	0.906	0.9	1.05	0.06657	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.991623	0.897496	0.0941273	0.906	0.9	1.05	0.06657	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	1	0.898257	0.101743	0.906	0.9	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.899397	0.0930243	0.906	0.9	1.05	0.06657	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.989009	0.876968	0.112041	0.89231	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05336	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05336	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07062	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07062	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.906	0.0864221	0.906	0.95	1.05	0.06657	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.17039	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.17039	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'Hitchland Interchange 345KV'	1.002146	0.922169	0.0799766	0.92217	0.95	1.05	0.20345	System Intact
FDNS	06ALL	0	18G	ASGI_16_09	'HOLLIS 138KV'	0.976893	0.911222	0.0656702	0.9869	0.92	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'HOLLIS TAP 138KV'	0.976866	0.911279	0.0655869	0.98686	0.92	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.9	1.05	0.07384	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.92	1.05	0.07384	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.9	1.05	0.07384	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.92	1.05	0.07384	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'KINGSMILL INTERCHANGE 69KV'	1.029913	1.052916	0.0230038	1.03322	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'LAWTON EASTSIDE 345KV'	0.988849	0.913434	0.0754145	0.97952	0.92	1.05	0.07677	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'LAWTON EASTSIDE 345KV'	0.989403	0.914396	0.0750066	0.97531	0.92	1.05	0.10249	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	ASGI_16_09	'LAWTON EASTSIDE 345KV'	0.989431	0.918226	0.0712057	0.97728	0.92	1.05	0.10434	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.19726	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.19726	System Intact
FDNSLock	06ALL	2	18SP	ASGI_16_09	'LYONS SUB 69KV'	1.014907	1.052071	0.0371634	1.01937	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'LYONS TAP 69KV'	1.02031	1.057277	0.0369672	1.02475	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'MAGIC CITY 69KV'	1.015956	1.073698	0.057742	1.02305	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'MCCULLOUGH SUB 69KV'	1.029286	1.058355	0.0290693	1.03294	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.9	1.05	0.09551	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.92	1.05	0.09551	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.9	1.05	0.09551	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.92	1.05	0.09551	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.04007	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.04007	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.04007	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.04007	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	1	0.89583	0.10417	0.88973	0.9	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.978709	0.889495	0.0892145	0.90209	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.978709	0.889495	0.0892145	0.90209	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.984361	0.88184	0.10252	0.88973	0.9	1.05	0.05767	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	1	0.899523	0.100477	0.88973	0.9	1.05	0.05767	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.984429	0.883546	0.100883	0.88973	0.9	1.05	0.05581	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	1	0.897376	0.102624	0.88973	0.9	1.05	0.26118	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.9844	0.882784	0.101617	0.88973	0.9	1.05	0.05767	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.984013	0.880494	0.10352	0.88973	0.9	1.05	0.05767	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18SP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	1	0.880735	0.119265	0.88973	0.9	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.881206	0.103188	0.88973	0.9	1.05	0.05767	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.984782	0.898919	0.0858634	0.88973	0.9	1.05	0.08208	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.978672	0.891548	0.0871245	0.90209	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.958425	0.898039	0.0603866	0.922	0.9	1.05	0.06109	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.969552	0.897217	0.0723359	0.922	0.9	1.05	0.06109	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.981309	0.89794	0.0833692	0.922	0.9	1.05	0.06109	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.984412	0.88307	0.101342	0.88973	0.9	1.05	0.05767	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	1	0.895688	0.104312	0.88973	0.9	1.05	0.05767	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.04749	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.04749	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.06109	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.06109	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.889732	0.0946618	0.88973	0.95	1.05	0.05767	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.98052	0.896604	0.083916	0.92201	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.98052	0.896604	0.083916	0.92201	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'MOORE COUNTY INTERCHANGE 230KV'	0.984493	0.896089	0.0884044	0.88973	0.9	1.05	0.05767	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	ASGI_16_09	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.0434	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.0434	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'NEWHART 230 230KV'	1.00408	0.937379	0.0667012	0.93738	0.95	1.05	0.04112	System Intact
FDNSLock	06ALL	2	18SP	ASGI_16_09	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.92	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 3115.00 115KV'	1.000531	0.897523	0.103008	0.9106	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 3115.00 115KV'	1.000531	0.897523	0.103008	0.9106	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 3115.00 115KV'	0.998723	0.894825	0.103898	0.9106	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	0.999252	0.893829	0.105423	0.90695	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	0.999252	0.893829	0.105423	0.90695	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	0.996893	0.891121	0.105771	0.90695	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.9	1.05	0.09551	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.92	1.05	0.09551	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.9	1.05	0.09551	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.92	1.05	0.09551	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.04007	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.04007	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.04007	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	ASGI_16_09	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.04007	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OCHILTREE 230KV'	1	0.899887	0.100113	0.89422	0.9	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.989658	0.874341	0.115317	0.88854	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.989658	0.874341	0.115317	0.88854	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OCHILTREE 230KV'	0.981367	0.889038	0.0923285	0.89422	0.9	1.05	0.05581	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.04709	'Hitchland Interchange (H T880155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.04709	'Hitchland Interchange (H T880155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OCHILTREE 230KV'	1	0.886255	0.113745	0.89422	0.9	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.988305	0.873763	0.114542	0.88854	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.09207	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.09207	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.9	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.92	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.9	1.05	0.05116	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.92	1.05	0.05116	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.05317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.05317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.06482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.06482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.05317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.05317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.06482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.06482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.0689	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.0689	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06082	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06082	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06082	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06082	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.9865	0.909737	0.0767626	0.92105	0.92	1.05	0.04973	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.9	1.05	0.04465	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.92	1.05	0.04465	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.9	1.05	0.13753	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.92	1.05	0.13753	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.002267	0.907976	0.0942918	0.9613	0.92	1.05	0.1555	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.9	1.05	0.13976	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.92	1.05	0.13976	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.002849	0.912851	0.0899981	0.96336	0.92	1.05	0.15766	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.9	1.05	0.15212	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.92	1.05	0.15212	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03059	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03059	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03059	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03059	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08263	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08263	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.08385	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.08385	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.08109	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.08109	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.08109	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.08109	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.07187	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.07187	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.07187	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.07187	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.98716	0.904949	0.0822111	0.92105	0.92	1.05	0.09475	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.9	1.05	0.09118	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.92	1.05	0.09118	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.11389	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.11389	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.11389	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.11389	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.92	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.92	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.9873	0.910261	0.077039	0.92105	0.92	1.05	0.04201	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.9	1.05	0.04177	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.92	1.05	0.04177	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.9	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.92	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.9	1.05	0.092	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.92	1.05	0.092	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.9	1.05	0.08522	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.92	1.05	0.08522	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.9	1.05	0.04782	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.92	1.05	0.04782	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.988	0.912526	0.0754739	0.90693	0.92	1.05	0.14196	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.9	1.05	0.03578	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.92	1.05	0.03578	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.9	1.05	0.05581	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.92	1.05	0.05581	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.004016	0.909447	0.0945695	0.95817	0.92	1.05	0.12871	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.003876	0.916102	0.0877743	0.96159	0.92	1.05	0.13042	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980148	0.828259	0.151889	0.82236	0.9	1.05	0.23307	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980148	0.828259	0.151889	0.82236	0.92	1.05	0.23307	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.9	1.05	0.26118	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.92	1.05	0.26118	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.07349	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.07349	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05313	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05313	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05313	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05313	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04201	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04201	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04177	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04177	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04177	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04177	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11092	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11092	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11092	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11092	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11092	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11092	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.9	1.05	0.05767	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.92	1.05	0.05767	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.9	1.05	0.05767	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.92	1.05	0.05767	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.9	1.05	0.03578	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.92	1.05	0.03578	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.9	1.05	0.05581	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.92	1.05	0.05581	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.9	1.05	0.092	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.92	1.05	0.092	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.9	1.05	0.08522	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.92	1.05	0.08522	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.9	1.05	0.05116	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.92	1.05	0.05116	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.9	1.05	0.05163	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.92	1.05	0.05163	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.983732	0.912099	0.0716323	0.92105	0.92	1.05	0.07758	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.9	1.05	0.07677	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.92	1.05	0.07677	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.9	1.05	0.07677	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.92	1.05	0.07677	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.007264	0.914312	0.0929524	0.95817	0.92	1.05	0.10249	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.007696	0.919528	0.0881681	0.96159	0.92	1.05	0.10434	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.9	1.05	0.11683	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.92	1.05	0.11683	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.9	1.05	0.11683	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.92	1.05	0.11683	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.9	1.05	0.11683	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.92	1.05	0.11683	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.9	1.05	0.11683	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.92	1.05	0.11683	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.9	1.05	0.05163	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.92	1.05	0.05163	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.985011	0.912126	0.0728853	0.90693	0.92	1.05	0.10331	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.9	1.05	0.04462	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.92	1.05	0.04462	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.06947	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.06947	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.06947	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.06947	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07139	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07139	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07139	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07139	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.06772	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.06772	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.21803	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.21803	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.21803	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.21803	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.12817	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.12817	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.13073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.13073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04382	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04382	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04382	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04382	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.04332	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.04332	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.04332	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.04332	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.9	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.92	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.981753	0.901686	0.0800664	0.90693	0.92	1.05	0.17754	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.981753	0.901686	0.0800664	0.90693	0.92	1.05	0.17754	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.9	1.05	0.08208	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.92	1.05	0.08208	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.9	1.05	0.10279	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.92	1.05	0.10279	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.9	1.05	0.07098	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.92	1.05	0.07098	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.9	1.05	0.07093	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.92	1.05	0.07093	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06219	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06219	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.0672	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.0672	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.988977	0.915872	0.0731052	0.92105	0.92	1.05	0.06212	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.92	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.9	1.05	0.06605	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.92	1.05	0.06605	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.05898	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.05898	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.08674	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.08674	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03497	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03497	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03497	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03497	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06334	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06334	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.0652	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.0652	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.0652	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.0652	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.9	1.05	0.17222	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.92	1.05	0.17222	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.009382	0.908955	0.100427	0.95817	0.92	1.05	0.14768	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	1.005603	0.919735	0.0858682	0.9613	0.92	1.05	0.16238	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.990529	0.913484	0.0770449	0.92105	0.92	1.05	0.03595	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.990529	0.913484	0.0770449	0.92105	0.92	1.05	0.03595	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.9	1.05	0.08428	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.92	1.05	0.08428	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.9	1.05	0.08428	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.92	1.05	0.08428	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.99092	0.919373	0.0715467	0.90693	0.92	1.05	0.12109	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.9	1.05	0.10279	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.92	1.05	0.10279	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.9	1.05	0.07089	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.92	1.05	0.07089	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.9	1.05	0.07103	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.92	1.05	0.07103	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.92	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.92	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.21692	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.21692	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.21692	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.21692	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.09207	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.09207	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.9	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.92	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.9	1.05	0.05116	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.92	1.05	0.05116	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.05317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.05317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.06482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.06482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.05317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.05317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.06482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.06482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.0689	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.0689	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.0689	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.0689	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06082	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06082	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06082	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06082	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.986311	0.909563	0.076748	0.92088	0.92	1.05	0.04973	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.9	1.05	0.04465	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.92	1.05	0.04465	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.9	1.05	0.13753	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.92	1.05	0.13753	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	ASGI_16_09	'OKLAUNION 345KV'	1.002076	0.907802	0.0942737	0.96111	0.92	1.05	0.1555	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.9	1.05	0.13976	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.92	1.05	0.13976	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	ASGI_16_09	'OKLAUNION 345KV'	1.002657	0.912676	0.0899807	0.96317	0.92	1.05	0.15766	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.9	1.05	0.15212	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.92	1.05	0.15212	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.991068	0.915633	0.0754344	0.92088	0.92	1.05	0.23804	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.991068	0.915611	0.0754568	0.92088	0.92	1.05	0.23804	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.9	1.05	0.23639	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.92	1.05	0.23639	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.9	1.05	0.23639	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.92	1.05	0.23639	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03059	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03059	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03059	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03059	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08263	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08263	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05637	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.08385	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.08385	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.08109	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.08109	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.08109	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.08109	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.07187	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.07187	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.07187	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.07187	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.9	1.05	0.23639	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.92	1.05	0.23639	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNSLock	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.9	1.05	0.23639	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.92	1.05	0.23639	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.986971	0.904776	0.0821953	0.92088	0.92	1.05	0.09475	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.9	1.05	0.09118	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.92	1.05	0.09118	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.11389	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.11389	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.11389	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.11389	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.92	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.92	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.9	1.05	0.22627	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.92	1.05	0.22627	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.987111	0.910087	0.0770242	0.92088	0.92	1.05	0.04201	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.9	1.05	0.04177	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.92	1.05	0.04177	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.9	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.92	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.9	1.05	0.092	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.92	1.05	0.092	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.9	1.05	0.08522	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.92	1.05	0.08522	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.9	1.05	0.04782	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.92	1.05	0.04782	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.987811	0.912352	0.0754595	0.90675	0.92	1.05	0.14196	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.9	1.05	0.22627	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.92	1.05	0.22627	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.9	1.05	0.03578	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.92	1.05	0.03578	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.9	1.05	0.05581	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.92	1.05	0.05581	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUNION 345KV'	1.003842	0.909273	0.0945696	0.95798	0.92	1.05	0.12871	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUNION 345KV'	1.003703	0.915927	0.0877757	0.9614	0.92	1.05	0.13042	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.979978	0.8281	0.151878	0.8222	0.9	1.05	0.23307	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.979978	0.8281	0.151878	0.8222	0.92	1.05	0.23307	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.9	1.05	0.26118	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.92	1.05	0.26118	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.9	1.05	0.22627	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.92	1.05	0.22627	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.07349	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.07349	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05313	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05313	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05313	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05313	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.9	1.05	0.22627	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.92	1.05	0.22627	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04201	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04201	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04177	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04177	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04177	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04177	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11092	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11092	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11092	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11092	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11092	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11092	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.9	1.05	0.05767	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.92	1.05	0.05767	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.9	1.05	0.05767	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.92	1.05	0.05767	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.9	1.05	0.03578	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.92	1.05	0.03578	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.9	1.05	0.05581	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.92	1.05	0.05581	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.9	1.05	0.092	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.92	1.05	0.092	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.9	1.05	0.08522	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.92	1.05	0.08522	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.9	1.05	0.05116	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.92	1.05	0.05116	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.9	1.05	0.05163	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.92	1.05	0.05163	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.983544	0.911925	0.0716185	0.92088	0.92	1.05	0.07758	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.9	1.05	0.07677	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.92	1.05	0.07677	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.9	1.05	0.07677	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.92	1.05	0.07677	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUNION 345KV'	1.00709	0.914137	0.0929529	0.95798	0.92	1.05	0.10249	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUNION 345KV'	1.007522	0.919352	0.0881696	0.9614	0.92	1.05	0.10434	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.9	1.05	0.11683	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.92	1.05	0.11683	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.9	1.05	0.11683	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.92	1.05	0.11683	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.9	1.05	0.11683	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.92	1.05	0.11683	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.9	1.05	0.11683	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.92	1.05	0.11683	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.9	1.05	0.05163	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.92	1.05	0.05163	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.984823	0.911952	0.0728713	0.90675	0.92	1.05	0.10331	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.9	1.05	0.04462	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.92	1.05	0.04462	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.06947	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.06947	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.06947	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.06947	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07139	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07139	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07139	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07139	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.06772	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.06772	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	ASGI_16_09	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.21803	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	ASGI_16_09	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.21803	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	ASGI_16_09	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.21803	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	ASGI_16_09	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.21803	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.12817	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.12817	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.13073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.13073	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04382	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04382	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04382	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04382	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.04332	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.04332	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.04332	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.04332	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.9	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.92	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981565	0.901514	0.0800511	0.90675	0.92	1.05	0.17754	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981565	0.901514	0.0800511	0.90675	0.92	1.05	0.17754	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.9	1.05	0.22627	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.92	1.05	0.22627	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.9	1.05	0.08208	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.92	1.05	0.08208	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.9	1.05	0.10279	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.92	1.05	0.10279	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.9	1.05	0.07098	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.92	1.05	0.07098	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.9	1.05	0.07093	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.92	1.05	0.07093	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06219	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06219	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.0672	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.0672	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.988788	0.915697	0.0730912	0.92088	0.92	1.05	0.06212	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.92	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.9	1.05	0.06605	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.92	1.05	0.06605	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.05898	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.05898	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.98162	0.900538	0.081082	0.90675	0.92	1.05	0.23639	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981681	0.900067	0.081614	0.90675	0.92	1.05	0.23639	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.08674	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.08674	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	ASGI_16_09	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.9	1.05	0.24431	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	17WP	ASGI_16_09	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.92	1.05	0.24431	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	ASGI_16_09	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.9	1.05	0.24431	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	ASGI_16_09	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.92	1.05	0.24431	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.9	1.05	0.23804	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.92	1.05	0.23804	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.9	1.05	0.23804	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.92	1.05	0.23804	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	ASGI_16_09	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.9	1.05	0.23697	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	ASGI_16_09	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.92	1.05	0.23697	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	ASGI_16_09	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.9	1.05	0.23697	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	ASGI_16_09	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.92	1.05	0.23697	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.9	1.05	0.23639	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.92	1.05	0.23639	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	18G	ASGI_16_09	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.16807	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	18G	ASGI_16_09	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.16807	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.9	1.05	0.13927	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.92	1.05	0.13927	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.952946	0.916513	0.0364331	0.98214	0.92	1.05	0.16595	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.952947	0.916475	0.0364715	0.98214	0.92	1.05	0.16595	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.9	1.05	0.15975	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.92	1.05	0.15975	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.9	1.05	0.15975	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.92	1.05	0.15975	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	18G	ASGI_16_09	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.1699	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	18G	ASGI_16_09	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.1699	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.9	1.05	0.14111	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	ASGI_16_09	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.92	1.05	0.14111	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.952924	0.917157	0.0357668	0.98247	0.92	1.05	0.16772	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.952923	0.917124	0.0357989	0.98247	0.92	1.05	0.16772	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.9	1.05	0.16155	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.92	1.05	0.16155	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.9	1.05	0.16155	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.92	1.05	0.16155	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03497	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03497	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03497	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03497	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06334	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06334	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.0652	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.0652	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.0652	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.0652	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.9	1.05	0.17222	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.92	1.05	0.17222	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	ASGI_16_09	'OKLAUNION 345KV'	1.009207	0.908781	0.100426	0.95798	0.92	1.05	0.14768	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	ASGI_16_09	'OKLAUNION 345KV'	1.005411	0.919559	0.0858518	0.96111	0.92	1.05	0.16238	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.990339	0.913309	0.0770302	0.92088	0.92	1.05	0.03595	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.990339	0.913309	0.0770302	0.92088	0.92	1.05	0.03595	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.9	1.05	0.22627	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.92	1.05	0.22627	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.9	1.05	0.22627	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.92	1.05	0.22627	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.9	1.05	0.08428	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.92	1.05	0.08428	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.9	1.05	0.08428	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.92	1.05	0.08428	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.99073	0.919197	0.071533	0.90675	0.92	1.05	0.12109	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.23804	System Intact
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.23804	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.19726	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.19726	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.23639	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.23639	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979428	0.826461	0.152967	0.82646	0.95	1.05	0.22627	System Intact
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.9	1.05	0.10279	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.92	1.05	0.10279	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.9	1.05	0.07089	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.92	1.05	0.07089	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.9	1.05	0.07103	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.92	1.05	0.07103	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.92	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.92	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.9	1.05	0.22627	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.92	1.05	0.22627	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.21692	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.21692	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.21692	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.21692	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980323	0.90143	0.0788932	0.90675	0.92	1.05	0.23639	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	ASGI_16_09	'OKLAUNION 345KV'	0.980313	0.901231	0.0790821	0.90675	0.92	1.05	0.23639	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.08538	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.08538	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 230KV'	0.999107	0.920025	0.0790821	0.92003	0.95	1.05	0.08325	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	1	0.888072	0.111928	0.88217	0.9	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.978173	0.899788	0.0783843	0.91598	0.9	1.05	0.04465	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.976707	0.895245	0.0814623	0.91598	0.9	1.05	0.17257	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.976783	0.894322	0.0824615	0.91598	0.9	1.05	0.17257	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983742	0.88479	0.0989521	0.8984	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983742	0.88479	0.0989521	0.8984	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.98763	0.874154	0.113476	0.88217	0.9	1.05	0.16603	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	1	0.891394	0.108606	0.88217	0.9	1.05	0.16603	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.98772	0.87598	0.11174	0.88217	0.9	1.05	0.05581	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	1	0.890089	0.109911	0.88217	0.9	1.05	0.26118	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.987702	0.875053	0.112649	0.88217	0.9	1.05	0.16603	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.98753	0.873304	0.114226	0.88217	0.9	1.05	0.16603	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.978239	0.895983	0.0822566	0.91598	0.9	1.05	0.07677	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	1	0.873377	0.126623	0.88217	0.9	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.873885	0.113808	0.88217	0.9	1.05	0.16603	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.987989	0.890881	0.0971085	0.88217	0.9	1.05	0.08208	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983824	0.887861	0.0959628	0.8984	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.977311	0.890959	0.0863523	0.91598	0.9	1.05	0.17257	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.965518	0.875183	0.0903352	0.91598	0.9	1.05	0.04217	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.965518	0.875183	0.0903352	0.91598	0.9	1.05	0.04217	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.987718	0.875335	0.112383	0.88217	0.9	1.05	0.16603	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	1	0.887851	0.112149	0.88217	0.9	1.05	0.16603	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.15517	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.15517	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.17257	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.17257	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.882171	0.105522	0.88217	0.95	1.05	0.16603	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.978713	0.886244	0.0924695	0.91598	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.978713	0.886244	0.0924695	0.91598	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'POTTER COUNTY INTERCHANGE 345KV'	0.98811	0.888961	0.0991488	0.88217	0.9	1.05	0.16603	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	ASGI_16_09	'RANDALL COUNTY INTERCHANGE 230KV'	1.001004	0.938957	0.0620475	0.93896	0.95	1.05	0.03658	System Intact
FDNSLock	06ALL	2	18SP	ASGI_16_09	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.92	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'ROBERTS COUNTY TAP 69KV'	1.019254	1.056662	0.0374085	1.02375	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.06482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.06482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.9	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.92	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 115KV'	0.989482	0.91903	0.0704518	0.94503	0.92	1.05	0.08522	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 115KV'	0.991221	0.912006	0.0792154	0.91779	0.92	1.05	0.05581	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 115KV'	0.991273	0.912663	0.07861	0.91779	0.92	1.05	0.05581	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 115KV'	0.989353	0.912742	0.076611	0.91779	0.92	1.05	0.11683	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 115KV'	0.989352	0.912741	0.0766112	0.91779	0.92	1.05	0.11683	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 115KV'	0.988367	0.910602	0.077765	0.91779	0.92	1.05	0.05163	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07139	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07139	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 115KV'	1	0.911987	0.0880125	0.91779	0.92	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 115KV'	0.975588	0.910931	0.0646564	0.95684	0.92	1.05	0.08428	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 115KV'	0.974107	0.911925	0.062182	0.95684	0.92	1.05	0.08428	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.9	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.92	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 69KV'	1	0.915479	0.0845211	0.90842	0.92	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.06482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.06482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.95464	0.915326	0.0393143	0.9309	0.92	1.05	0.04465	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.972962	0.912699	0.060263	0.9309	0.92	1.05	0.09118	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.964962	0.908186	0.0567757	0.9309	0.92	1.05	0.04177	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	17WP	ASGI_16_09	'SHAMROCK 69KV'	0.967834	0.914151	0.053683	0.96076	0.92	1.05	0.0885	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.9	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.92	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.971364	0.905931	0.0654329	0.9309	0.92	1.05	0.08522	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 69KV'	0.9702	0.902855	0.0673447	0.90842	0.92	1.05	0.05581	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 69KV'	1	0.916379	0.0836212	0.90842	0.92	1.05	0.26118	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04177	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04177	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.97221	0.912887	0.0593234	0.9309	0.92	1.05	0.08522	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.955257	0.910689	0.0445682	0.9309	0.92	1.05	0.07677	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 69KV'	0.9685	0.903615	0.0648848	0.90842	0.92	1.05	0.11683	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 69KV'	0.9685	0.903615	0.0648851	0.90842	0.92	1.05	0.11683	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 69KV'	0.967541	0.901347	0.0661935	0.90842	0.92	1.05	0.05163	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07139	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07139	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	ASGI_16_09	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.21803	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	ASGI_16_09	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.21803	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 69KV'	1	0.902947	0.0970531	0.90842	0.92	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SHAMROCK 69KV'	0.970354	0.916817	0.0535374	0.90842	0.92	1.05	0.08208	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 69KV'	0.955735	0.917017	0.0387179	0.94142	0.92	1.05	0.10279	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	18G	ASGI_16_09	'SHAMROCK 69KV'	0.972404	0.918616	0.0537882	0.94142	0.92	1.05	0.17222	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.9	1.05	0.08428	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.92	1.05	0.08428	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.9	1.05	0.08428	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.92	1.05	0.08428	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	ASGI_16_09	'SHAMROCK 69KV'	0.961202	0.917197	0.0440053	0.94142	0.92	1.05	0.10279	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.954056	0.912626	0.0414308	0.9309	0.92	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SHAMROCK 69KV'	0.954056	0.912626	0.0414308	0.9309	0.92	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	1	0.895314	0.104686	0.88941	0.9	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.988533	0.893715	0.0948179	0.90737	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.988533	0.893715	0.0948179	0.90737	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.992226	0.883218	0.109008	0.88941	0.9	1.05	0.05581	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	1	0.897333	0.102667	0.88941	0.9	1.05	0.26118	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	1	0.880613	0.119387	0.88941	0.9	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.992454	0.898125	0.0943297	0.88941	0.9	1.05	0.08208	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.988603	0.896797	0.091805	0.90737	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.972278	0.881922	0.0903562	0.92273	0.9	1.05	0.04217	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.972278	0.881922	0.0903562	0.92273	0.9	1.05	0.04217	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.984596	0.892986	0.0916106	0.92273	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SPNSPUR_WND7345.00 345KV'	0.984596	0.892986	0.0916106	0.92273	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'STATELINE INTERCHANGE 115KV'	1.021039	1.075547	0.0545086	1.02261	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'STATELINE INTERCHANGE 230KV'	1.021124	1.069772	0.048648	1.01641	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05058	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05058	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'STATELINE INTERCHANGE 230KV'	0.999138	0.921867	0.0772707	0.92187	0.95	1.05	0.06528	System Intact
FDNSLock	06ALL	2	18SP	ASGI_16_09	'STLN-DEMARC6 230KV'	1.020763	1.077596	0.0568331	1.01717	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'STLN-DEMARC6 230KV'	1.003486	0.940168	0.0633178	0.94017	0.95	1.05	0.07708	System Intact
FDNSLock	06ALL	2	18SP	ASGI_16_09	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.9	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	ASGI_16_09	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.92	1.05	0.04771	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'SWEETWATER 230KV'	1.005199	0.94769	0.0575091	0.94769	0.95	1.05	0.07708	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.10008	System Intact
FDNS	06ALL	0	21SP	ASGI_16_09	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.10008	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'TOLK STATION 345KV'	0.998751	0.931691	0.0670596	0.93169	0.95	1.05	0.03098	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 230KV'	0.997739	0.916717	0.0810212	0.93709	0.925	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 230KV'	0.997739	0.916717	0.0810212	0.93709	0.925	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980337	0.871075	0.109263	0.89054	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980337	0.871075	0.109263	0.89054	0.9	1.05	0.24091	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.986669	0.896838	0.0898305	0.90252	0.9	1.05	0.21246	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.986994	0.898432	0.088562	0.89054	0.9	1.05	0.23307	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.987166	0.897297	0.0898693	0.90252	0.9	1.05	0.21246	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.05317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.04709	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.05414	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.05292	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05648	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.98007	0.87691	0.10316	0.89054	0.9	1.05	0.05469	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.04126	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05251	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.09727	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.981518	0.890541	0.0909774	0.89054	0.95	1.05	0.19936	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.981518	0.890541	0.0909774	0.89054	0.95	1.05	0.19936	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'TUCO INTERCHANGE 345KV'	0.987203	0.902522	0.0846803	0.90252	0.95	1.05	0.21246	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09366	System Intact
FDNS	06ALL	0	21L	ASGI_16_09	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09366	System Intact
FDNS	06ALL	0	21WP	ASGI_16_09	'WALKEMEYER 7345.00 345KV'	1.007796	0.942456	0.0653399	0.94246	0.95	1.05	0.11558	System Intact
FDNS	06ALL	0	18G	ASGI_16_09	'WELLINGTON 138KV'	0.974511	0.90498	0.0695304	0.98387	0.92	1.05	0.08428	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.09112	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	1	0.893351	0.106649	0.88805	0.9	1.05	0.08059	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.95668	0.872255	0.0844254	0.88972	0.9	1.05	0.04465	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.08109	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.08109	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.07187	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.07187	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.957466	0.87909	0.0783766	0.88972	0.9	1.05	0.09118	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.11449	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.95559	0.882665	0.0729249	0.88972	0.9	1.05	0.04177	'CHISHOLM6 230.00 - ELK CITY 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.955598	0.874507	0.0810914	0.88972	0.9	1.05	0.08522	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.954336	0.873399	0.080937	0.88972	0.9	1.05	0.14196	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.989832	0.882469	0.107363	0.88805	0.9	1.05	0.05581	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	1	0.894915	0.105085	0.88805	0.9	1.05	0.26118	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04177	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04177	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10331	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.955246	0.877048	0.0781975	0.88972	0.9	1.05	0.08522	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956451	0.881292	0.0751584	0.88972	0.9	1.05	0.07677	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.95642	0.868502	0.0879176	0.88972	0.9	1.05	0.07677	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.955979	0.884514	0.0714648	0.88972	0.9	1.05	0.03731	'GEN542962 2-IATAN UNIT #2'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.955566	0.884194	0.071372	0.88972	0.9	1.05	0.0672	'GEN640011 2-GERALD GENTLEMAN STATION UNIT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.955134	0.874023	0.0811113	0.88972	0.9	1.05	0.14196	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07062	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.21926	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12246	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04824	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	1	0.880141	0.119859	0.88805	0.9	1.05	0.05061	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956663	0.88375	0.0729131	0.88972	0.9	1.05	0.17754	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956663	0.88375	0.0729131	0.88972	0.9	1.05	0.17754	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.955292	0.873096	0.0821962	0.88972	0.9	1.05	0.12109	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.990057	0.895858	0.0941991	0.88805	0.9	1.05	0.08208	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.0434	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.08538	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.954897	0.874378	0.0805191	0.88972	0.9	1.05	0.12109	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.10008	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956892	0.881898	0.0749943	0.88972	0.9	1.05	0.07089	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956884	0.88173	0.0751533	0.88972	0.9	1.05	0.07103	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.954792	0.858261	0.0965316	0.88972	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.954792	0.858261	0.0965316	0.88972	0.9	1.05	0.08806	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.06137	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.06137	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.21692	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.21692	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.21692	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	ASGI_16_09	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.21692	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G15_099	'AMARILLO SOUTH INTERCHANGE 230KV'	1.003064	0.931739	0.0713246	0.93174	0.95	1.05	0.07344	System Intact
FDNS	06ALL	0	21L	G15_099	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.05557	System Intact
FDNS	06ALL	0	21L	G15_099	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.05557	System Intact
FDNS	06ALL	0	21WP	G15_099	'BADGER 345.00 345KV'	1.010793	0.94727	0.0635229	0.94727	0.95	1.05	0.06722	System Intact
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.05139	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'BORDER 7345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05718	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.05139	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04497	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.172	System Intact
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.172	System Intact
FDNS	06ALL	0	21SP	G15_099	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.20418	System Intact
FDNS	06ALL	0	21SP	G15_099	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.20418	System Intact
FDNS	06ALL	0	21WP	G15_099	'BORDER 7345.00 345KV'	0.973293	0.916543	0.0567498	0.91654	0.95	1.05	0.19558	System Intact
FDNS	06ALL	0	21L	G15_099	'BORDER 7345.00 345KV'	0.969786	0.86839	0.101396	0.87749	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNSLock	06ALL	2	18SP	G15_099	'BOWERS INTERCHANGE 69KV'	1.034897	1.071238	0.0363411	1.03926	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'BOWERS TAP 69KV'	1.024455	1.061259	0.0368036	1.02888	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.08708	System Intact
FDNS	06ALL	0	21SP	G15_099	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.08708	System Intact
FDNS	06ALL	0	21WP	G15_099	'BUSHLAND INTERCHANGE 230KV'	1.008722	0.932744	0.0759785	0.93274	0.95	1.05	0.0846	System Intact
FDNS	06ALL	0	21L	G15_099	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.09195	System Intact
FDNS	06ALL	0	21L	G15_099	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.09195	System Intact
FDNS	06ALL	0	21WP	G15_099	'BVRCNTY7 345.00 345KV'	1.006863	0.937326	0.0695368	0.93733	0.95	1.05	0.11124	System Intact
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.96842	0.890848	0.0775719	0.90812	0.9	1.05	0.04394	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.969176	0.897907	0.0712687	0.90812	0.9	1.05	0.09232	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.96764	0.893942	0.0736985	0.90812	0.9	1.05	0.08511	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.966475	0.893047	0.0734277	0.90812	0.9	1.05	0.14009	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.967829	0.892317	0.075512	0.90812	0.9	1.05	0.04006	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.967369	0.896732	0.0706367	0.90812	0.9	1.05	0.08511	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968277	0.899867	0.0684105	0.90812	0.9	1.05	0.07489	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968249	0.887365	0.0808841	0.90812	0.9	1.05	0.07489	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.967124	0.893546	0.0735774	0.90812	0.9	1.05	0.14009	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.967324	0.892308	0.0750153	0.90812	0.9	1.05	0.11992	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.967003	0.893665	0.0733384	0.90812	0.9	1.05	0.11992	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.966592	0.877529	0.0890628	0.90812	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.966592	0.877529	0.0890628	0.90812	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.31266	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.31266	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.04203	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.04203	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.04203	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G15_099	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.04203	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G15_099	'CHISHOLM6 230.00 230KV'	1.000288	0.948971	0.0513175	0.94897	0.95	1.05	0.07751	System Intact
FDNSLock	06ALL	2	18SP	G15_099	'COBRN_CREEK3115.00 115KV'	1.025514	1.086157	0.060643	1.03258	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'CRAWFISH_DR 345.00 345KV'	0.986452	0.894945	0.0915074	0.90018	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'CRAWFISH_DR 345.00 345KV'	0.986452	0.894945	0.0915074	0.90018	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.97954	0.868599	0.110941	0.88811	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.97954	0.868599	0.110941	0.88811	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'CRAWFISH_DR 345.00 345KV'	0.986024	0.894426	0.0915983	0.90018	0.9	1.05	0.20758	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.985125	0.893163	0.0919619	0.88811	0.9	1.05	0.17946	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'CRAWFISH_DR 345.00 345KV'	0.986513	0.894866	0.0916473	0.90018	0.9	1.05	0.20758	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.979218	0.874262	0.104955	0.88811	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.9807	0.888114	0.0925859	0.88811	0.95	1.05	0.17946	System Intact
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.9807	0.888114	0.0925859	0.88811	0.95	1.05	0.17946	System Intact
FDNS	06ALL	0	21WP	G15_099	'CRAWFISH_DR 345.00 345KV'	0.986551	0.900183	0.0863677	0.90018	0.95	1.05	0.20758	System Intact
FDNS	06ALL	0	21L	G15_099	'CRAWFISH_DR 345.00 345KV'	0.980699	0.87833	0.102369	0.88811	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G15_099	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.07673	System Intact
FDNS	06ALL	0	21SP	G15_099	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.07673	System Intact
FDNS	06ALL	0	21WP	G15_099	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.991095	0.92469	0.0664043	0.92469	0.95	1.05	0.0745	System Intact
FDNSLock	06ALL	2	18SP	G15_099	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.92	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'ELK_CT1 345.00 345KV'	0.987103	0.897366	0.0897368	0.90252	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'ELK_CT1 345.00 345KV'	0.987103	0.897366	0.0897368	0.90252	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980336	0.871074	0.109263	0.89054	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980336	0.871074	0.109263	0.89054	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.986993	0.898431	0.0885621	0.89054	0.9	1.05	0.17946	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980069	0.876909	0.10316	0.89054	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'ELK_CT1 345.00 345KV'	0.981517	0.880906	0.100611	0.89054	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.039841	1.070043	0.0302023	1.07636	0.9	1.05	0.06192	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.0693	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.0693	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.0693	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.0693	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.034487	1.055636	0.0211487	1.07636	0.9	1.05	0.03617	'CHISHOLM6 230.00 - ELK CITY 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.039885	1.066267	0.0263828	1.07636	0.9	1.05	0.06482	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.044674	1.071002	0.0263281	1.07636	0.9	1.05	0.2069	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03617	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03617	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.06939	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.06939	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.06939	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.06939	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.04416	1.070633	0.0264726	1.07636	0.9	1.05	0.09764	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04425	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04425	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03905	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03905	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04489	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G15_099	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04489	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G15_099	'EVA REGULATOR 69KV'	1	0.891847	0.108153	0.90099	0.9	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.99923	0.893822	0.105408	0.90694	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.99923	0.893822	0.105408	0.90694	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.996877	0.891114	0.105763	0.90694	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'FREWHELCOL17345.00 345KV'	0.999407	0.898982	0.100426	0.90694	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G15_099	'G06-44 115.00 115KV'	1.003684	0.898703	0.104981	0.91176	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G06-44 115.00 115KV'	1.003684	0.898703	0.104981	0.91176	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G06-44 115.00 115KV'	1.001334	0.896008	0.105326	0.91176	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14 345.00 345KV'	0.999401	0.898948	0.100453	0.90691	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G15_099	'G10-14-1 115.00 115KV'	1.002085	0.896928	0.105157	0.91001	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14-1 115.00 115KV'	1.002085	0.896928	0.105157	0.91001	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G15_099	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14-1 115.00 115KV'	0.99973	0.894228	0.105502	0.91001	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.05139	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'G1149G1504 345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05718	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.05139	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04497	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'G1149G1504 345.00 345KV'	0.969786	0.86839	0.101396	0.87749	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21WP	G15_099	'G16-045-SUB1345.00 345KV'	1	1.264422	0.264422	1.25588	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'G16-045-SUB2345.00 345KV'	1	1.2884	0.2884	1.27969	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'GEN-2016-057345.00 345KV'	1	1.276997	0.276997	1.26837	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'GEN-2016-057345.00 345KV'	1	1.324082	0.324082	1.31513	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.987726	0.889917	0.0978087	0.89794	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.987726	0.889917	0.0978087	0.89794	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.987686	0.8893	0.098386	0.89793	0.9	1.05	0.06386	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.987627	0.890547	0.0970804	0.89794	0.9	1.05	0.05587	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.987721	0.890309	0.097412	0.89793	0.9	1.05	0.06386	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.987658	0.887568	0.10009	0.89793	0.9	1.05	0.06386	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.986245	0.893592	0.0926524	0.89794	0.9	1.05	0.11565	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.986045	0.890344	0.0957015	0.89794	0.9	1.05	0.05127	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	1	0.889226	0.110774	0.89794	0.9	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.987716	0.887688	0.100028	0.89793	0.9	1.05	0.06386	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.98772	0.890597	0.0971233	0.89793	0.9	1.05	0.06386	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.04973	System Intact
FDNS	06ALL	0	21L	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.04973	System Intact
FDNS	06ALL	0	21WP	G15_099	'GRAPEVINE INTERCHANGE 230KV'	0.987715	0.897935	0.0897798	0.89794	0.95	1.05	0.06386	System Intact
FDNSLock	06ALL	2	18SP	G15_099	'Graves Sub 115KV'	1.02286	1.073505	0.0506449	1.02368	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'GRAVES SUB 69KV'	1.019223	1.076678	0.0574549	1.02628	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'GREENBELT REC-KELLERVILLE 69KV'	1.022793	1.059641	0.0368478	1.02722	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'GREENBELT REC-WHEELER 69KV'	1.018432	1.075929	0.0574974	1.02549	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.990685	0.878241	0.112444	0.89231	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.990685	0.878241	0.112444	0.89231	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.9924	0.899665	0.092734	0.906	0.9	1.05	0.06631	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.991623	0.897496	0.0941273	0.906	0.9	1.05	0.06631	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'HITCHLAND INTERCHANGE 230KV'	1	0.898257	0.101743	0.906	0.9	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.899397	0.0930243	0.906	0.9	1.05	0.06631	'MAJESTIC WIND 115KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.989009	0.876968	0.112041	0.89231	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05309	System Intact
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05309	System Intact
FDNS	06ALL	0	21SP	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07035	System Intact
FDNS	06ALL	0	21SP	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07035	System Intact
FDNS	06ALL	0	21WP	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.906	0.0864221	0.906	0.95	1.05	0.06631	System Intact
FDNS	06ALL	0	21L	G15_099	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.883832	0.107056	0.89231	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.17884	System Intact
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.17884	System Intact
FDNS	06ALL	0	21WP	G15_099	'Hitchland Interchange 345KV'	1.002146	0.922169	0.0799766	0.92217	0.95	1.05	0.2119	System Intact
FDNS	06ALL	0	21L	G15_099	'Hitchland Interchange 345KV'	0.999401	0.898948	0.100453	0.90691	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	18G	G15_099	'HOLLIS 138KV'	0.976893	0.911222	0.0656702	0.9869	0.92	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'HOLLIS TAP 138KV'	0.976866	0.911279	0.0655869	0.98686	0.92	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'HOPI SUB 115KV'	1.023085	1.051076	0.0279913	1.04506	0.9	1.05	0.24421	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'HOPI SUB 115KV'	1.023085	1.051076	0.0279913	1.04506	0.9	1.05	0.24421	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.9	1.05	0.07719	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.92	1.05	0.07719	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.9	1.05	0.07719	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.92	1.05	0.07719	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'KINGSMILL INTERCHANGE 69KV'	1.029913	1.052916	0.0230038	1.03322	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'LAWTON EASTSIDE 345KV'	0.988849	0.913434	0.0754145	0.97952	0.92	1.05	0.07489	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'LAWTON EASTSIDE 345KV'	0.989403	0.914396	0.0750066	0.97531	0.92	1.05	0.09764	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G15_099	'LAWTON EASTSIDE 345KV'	0.989431	0.918226	0.0712057	0.97728	0.92	1.05	0.09771	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.19347	System Intact
FDNS	06ALL	0	21L	G15_099	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.19347	System Intact
FDNSLock	06ALL	2	18SP	G15_099	'LYONS SUB 69KV'	1.014907	1.052071	0.0371634	1.01937	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'LYONS TAP 69KV'	1.02031	1.057277	0.0369672	1.02475	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'MAGIC CITY 69KV'	1.015956	1.073698	0.057742	1.02305	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'MCCULLOUGH SUB 69KV'	1.029286	1.058355	0.0290693	1.03294	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.9	1.05	0.09886	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.92	1.05	0.09886	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.9	1.05	0.09886	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.92	1.05	0.09886	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.03959	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.03959	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.03959	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.03959	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.984391	0.88238	0.102011	0.88973	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.984391	0.88238	0.102011	0.88973	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	1	0.89583	0.10417	0.88973	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.978709	0.889495	0.0892145	0.90209	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.978709	0.889495	0.0892145	0.90209	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.984361	0.88184	0.10252	0.88973	0.9	1.05	0.05786	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	1	0.899523	0.100477	0.88973	0.9	1.05	0.05786	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.984429	0.883546	0.100883	0.88973	0.9	1.05	0.05587	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	1	0.897376	0.102624	0.88973	0.9	1.05	0.20758	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.9844	0.882784	0.101617	0.88973	0.9	1.05	0.05786	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.984013	0.880494	0.10352	0.88973	0.9	1.05	0.05786	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18SP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	1	0.880735	0.119265	0.88973	0.9	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.881206	0.103188	0.88973	0.9	1.05	0.05786	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.984782	0.898919	0.0858634	0.88973	0.9	1.05	0.08242	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.978672	0.891548	0.0871245	0.90209	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.958425	0.898039	0.0603866	0.922	0.9	1.05	0.06129	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.969552	0.897217	0.0723359	0.922	0.9	1.05	0.06129	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.981309	0.89794	0.0833692	0.922	0.9	1.05	0.06129	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.984412	0.88307	0.101342	0.88973	0.9	1.05	0.05786	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	1	0.895688	0.104312	0.88973	0.9	1.05	0.05786	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.04769	System Intact
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.04769	System Intact
FDNS	06ALL	0	21SP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.06129	System Intact
FDNS	06ALL	0	21SP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.06129	System Intact
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.889732	0.0946618	0.88973	0.95	1.05	0.05786	System Intact
FDNS	06ALL	0	21SP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.98052	0.896604	0.083916	0.92201	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.98052	0.896604	0.083916	0.92201	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.89435	0.0845755	0.90209	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21WP	G15_099	'MOORE COUNTY INTERCHANGE 230KV'	0.984493	0.896089	0.0884044	0.88973	0.9	1.05	0.05786	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G15_099	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.07228	System Intact
FDNS	06ALL	0	21SP	G15_099	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.07228	System Intact
FDNS	06ALL	0	21WP	G15_099	'NEWHART 230 230KV'	1.00408	0.937379	0.0667012	0.93738	0.95	1.05	0.06999	System Intact
FDNSLock	06ALL	2	18SP	G15_099	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.92	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 3115.00 115KV'	1.000531	0.897523	0.103008	0.9106	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 3115.00 115KV'	1.000531	0.897523	0.103008	0.9106	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 3115.00 115KV'	0.998723	0.894825	0.103898	0.9106	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.999252	0.893829	0.105423	0.90695	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.999252	0.893829	0.105423	0.90695	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.996893	0.891121	0.105771	0.90695	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'NOVUS1 7345.00 345KV'	0.99943	0.898988	0.100441	0.90695	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	2	21SP	G15_099	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.9	1.05	0.09886	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.92	1.05	0.09886	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.9	1.05	0.09886	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.92	1.05	0.09886	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.03959	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.03959	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G15_099	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.03959	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	2	21SP	G15_099	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.03959	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OCHILTREE 230KV'	0.981338	0.888149	0.0931889	0.89422	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OCHILTREE 230KV'	0.981338	0.888149	0.0931889	0.89422	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OCHILTREE 230KV'	1	0.899887	0.100113	0.89422	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.989658	0.874341	0.115317	0.88854	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.989658	0.874341	0.115317	0.88854	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OCHILTREE 230KV'	0.981367	0.889038	0.0923285	0.89422	0.9	1.05	0.05587	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OCHILTREE 230KV'	1	0.886255	0.113745	0.89422	0.9	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.988305	0.873763	0.114542	0.88854	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OCHILTREE 230KV'	0.989866	0.879984	0.109882	0.88854	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.07453	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.07453	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979563	0.818514	0.161049	0.82662	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979563	0.818514	0.161049	0.82662	0.92	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979563	0.818514	0.161049	0.82662	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979563	0.818514	0.161049	0.82662	0.92	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.92	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.9	1.05	0.05139	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.92	1.05	0.05139	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.05557	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.05557	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.06722	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.06722	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.05557	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.05557	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.06722	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.06722	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.0713	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.0713	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06124	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06124	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06124	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06124	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.9865	0.909737	0.0767626	0.92105	0.92	1.05	0.04595	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.9	1.05	0.04394	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.92	1.05	0.04394	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.9	1.05	0.13209	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.92	1.05	0.13209	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1.002267	0.907976	0.0942918	0.9613	0.92	1.05	0.15005	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.9	1.05	0.13223	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.92	1.05	0.13223	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1.002849	0.912851	0.0899981	0.96336	0.92	1.05	0.15013	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.9	1.05	0.1397	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.92	1.05	0.1397	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.0314	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.0314	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.0314	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.0314	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08425	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08425	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.09822	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.09822	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.08708	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.08708	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.08708	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.08708	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.07565	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.07565	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.07565	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.07565	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.98716	0.904949	0.0822111	0.92105	0.92	1.05	0.09864	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.9	1.05	0.09232	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.92	1.05	0.09232	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12363	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12363	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12363	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12363	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.92	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.92	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.9873	0.910261	0.077039	0.92105	0.92	1.05	0.04262	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.9	1.05	0.0416	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.92	1.05	0.0416	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.9	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.92	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.9	1.05	0.09373	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.92	1.05	0.09373	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.9	1.05	0.08511	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.92	1.05	0.08511	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.9	1.05	0.04793	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.92	1.05	0.04793	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.988	0.912526	0.0754739	0.90693	0.92	1.05	0.14009	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.9	1.05	0.03583	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.92	1.05	0.03583	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.9	1.05	0.05587	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.92	1.05	0.05587	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	1.004016	0.909447	0.0945695	0.95817	0.92	1.05	0.12471	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	1.003876	0.916102	0.0877743	0.96159	0.92	1.05	0.12484	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.984929	0.914829	0.0701002	0.90693	0.92	1.05	0.04006	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980148	0.828259	0.151889	0.82236	0.9	1.05	0.17946	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980148	0.828259	0.151889	0.82236	0.92	1.05	0.17946	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.9	1.05	0.20758	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.92	1.05	0.20758	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.08754	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.08754	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05296	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05296	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05296	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05296	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04262	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04262	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.0416	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.0416	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.0416	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.0416	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11553	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11553	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11553	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11553	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11553	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11553	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.9	1.05	0.05718	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.92	1.05	0.05718	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.9	1.05	0.05718	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.92	1.05	0.05718	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.9	1.05	0.03583	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.92	1.05	0.03583	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.9	1.05	0.05587	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.92	1.05	0.05587	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.9	1.05	0.09373	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.92	1.05	0.09373	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.9	1.05	0.08511	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.92	1.05	0.08511	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.9	1.05	0.05139	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.92	1.05	0.05139	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.9	1.05	0.05127	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.92	1.05	0.05127	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.983732	0.912099	0.0716323	0.92105	0.92	1.05	0.07001	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.9	1.05	0.07489	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.92	1.05	0.07489	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.9	1.05	0.07489	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.92	1.05	0.07489	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	1.007264	0.914312	0.0929524	0.95817	0.92	1.05	0.09764	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	1.007696	0.919528	0.0881681	0.96159	0.92	1.05	0.09771	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.9	1.05	0.11565	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.92	1.05	0.11565	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.9	1.05	0.11565	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.92	1.05	0.11565	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.9	1.05	0.11565	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.92	1.05	0.11565	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.9	1.05	0.11565	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.92	1.05	0.11565	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.9	1.05	0.05127	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.92	1.05	0.05127	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.985011	0.912126	0.0728853	0.90693	0.92	1.05	0.10457	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.9	1.05	0.04497	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.92	1.05	0.04497	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.07443	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.07443	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.07443	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.07443	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07657	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07657	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07657	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07657	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.07059	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.07059	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.13638	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.13638	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.13847	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.13847	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06582	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06582	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06582	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06582	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04349	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04349	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04349	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04349	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.04282	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.04282	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.04282	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.04282	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.9	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.92	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.981753	0.901686	0.0800664	0.90693	0.92	1.05	0.0447	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.981753	0.901686	0.0800664	0.90693	0.92	1.05	0.0447	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.9	1.05	0.08242	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.92	1.05	0.08242	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.9	1.05	0.10576	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.92	1.05	0.10576	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.9	1.05	0.07169	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.92	1.05	0.07169	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.9	1.05	0.07164	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.92	1.05	0.07164	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06363	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06363	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.06764	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.06764	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.988977	0.915872	0.0731052	0.92105	0.92	1.05	0.06372	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.92	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.9	1.05	0.06653	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.92	1.05	0.06653	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.06202	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.06202	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976871	0.815834	0.161037	0.82236	0.9	1.05	0.1035	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.976871	0.815834	0.161037	0.82236	0.92	1.05	0.1035	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.08091	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.08091	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNSLock	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.819847	0.180153	0.82662	0.9	1.05	0.07239	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1	0.819847	0.180153	0.82662	0.92	1.05	0.07239	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979514	0.821568	0.157946	0.82662	0.9	1.05	0.10545	'OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979514	0.821568	0.157946	0.82662	0.92	1.05	0.10545	'OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06468	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06468	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.0656	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.0656	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.0656	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.0656	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.9	1.05	0.21372	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.92	1.05	0.21372	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	1.009382	0.908955	0.100427	0.95817	0.92	1.05	0.18452	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G15_099	'OKLAUN HVDC7345.00 345KV'	1.005603	0.919735	0.0858682	0.9613	0.92	1.05	0.19922	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.9	1.05	0.09041	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.92	1.05	0.09041	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.9	1.05	0.09041	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.92	1.05	0.09041	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.99092	0.919373	0.0715467	0.90693	0.92	1.05	0.11992	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.9	1.05	0.10576	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.92	1.05	0.10576	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.9	1.05	0.07159	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.92	1.05	0.07159	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.9	1.05	0.07173	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.92	1.05	0.07173	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.92	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.92	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977901	0.810213	0.167688	0.82236	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G15_099	'OKLAUN HVDC7345.00 345KV'	0.977901	0.810213	0.167688	0.82236	0.92	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.982034	0.901547	0.0804876	0.90693	0.92	1.05	0.03975	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.04203	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.04203	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.04203	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.04203	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.07453	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.07453	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979376	0.818358	0.161018	0.82646	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979376	0.818358	0.161018	0.82646	0.92	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979376	0.818358	0.161018	0.82646	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979376	0.818358	0.161018	0.82646	0.92	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.92	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.9	1.05	0.05139	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.92	1.05	0.05139	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.05557	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.05557	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.06722	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.06722	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.05557	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.05557	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.06722	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.06722	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.0713	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.0713	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.0713	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.0713	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06124	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06124	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06124	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06124	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.986311	0.909563	0.076748	0.92088	0.92	1.05	0.04595	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.9	1.05	0.04394	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.92	1.05	0.04394	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.9	1.05	0.13209	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.92	1.05	0.13209	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G15_099	'OKLAUNION 345KV'	1.002076	0.907802	0.0942737	0.96111	0.92	1.05	0.15005	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G15_099	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.9	1.05	0.13223	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G15_099	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.92	1.05	0.13223	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G15_099	'OKLAUNION 345KV'	1.002657	0.912676	0.0899807	0.96317	0.92	1.05	0.15013	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.9	1.05	0.1397	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.92	1.05	0.1397	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.991068	0.915633	0.0754344	0.92088	0.92	1.05	0.22321	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.991068	0.915611	0.0754568	0.92088	0.92	1.05	0.22321	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.9	1.05	0.23259	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.92	1.05	0.23259	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.9	1.05	0.23259	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.92	1.05	0.23259	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.0314	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.0314	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.0314	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.0314	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08425	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08425	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05679	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.09822	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.09822	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.08708	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.08708	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.08708	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.08708	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.07565	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.07565	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.07565	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.07565	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.9	1.05	0.23259	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.92	1.05	0.23259	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.9	1.05	0.23259	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.92	1.05	0.23259	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.986971	0.904776	0.0821953	0.92088	0.92	1.05	0.09864	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.9	1.05	0.09232	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.92	1.05	0.09232	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12363	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12363	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12363	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12363	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.92	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.92	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.9	1.05	0.22247	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.92	1.05	0.22247	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.987111	0.910087	0.0770242	0.92088	0.92	1.05	0.04262	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.9	1.05	0.0416	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.92	1.05	0.0416	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.9	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.92	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.9	1.05	0.09373	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.92	1.05	0.09373	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.9	1.05	0.08511	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.92	1.05	0.08511	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.9	1.05	0.04793	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.92	1.05	0.04793	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.987811	0.912352	0.0754595	0.90675	0.92	1.05	0.14009	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.9	1.05	0.22247	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.92	1.05	0.22247	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.9	1.05	0.03583	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.92	1.05	0.03583	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.9	1.05	0.05587	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.92	1.05	0.05587	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUNION 345KV'	1.003842	0.909273	0.0945696	0.95798	0.92	1.05	0.12471	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G15_099	'OKLAUNION 345KV'	1.003703	0.915927	0.0877757	0.9614	0.92	1.05	0.12484	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.984741	0.914654	0.070087	0.90675	0.92	1.05	0.04006	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.979978	0.8281	0.151878	0.8222	0.9	1.05	0.17946	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.979978	0.8281	0.151878	0.8222	0.92	1.05	0.17946	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.9	1.05	0.20758	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.92	1.05	0.20758	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.9	1.05	0.22247	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.92	1.05	0.22247	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.08754	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.08754	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05296	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05296	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05296	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05296	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.9	1.05	0.22247	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.92	1.05	0.22247	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04262	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04262	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.0416	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.0416	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.0416	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.0416	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11553	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11553	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11553	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11553	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11553	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11553	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.9	1.05	0.05718	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.92	1.05	0.05718	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.9	1.05	0.05718	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.92	1.05	0.05718	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.9	1.05	0.03583	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.92	1.05	0.03583	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.9	1.05	0.05587	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.92	1.05	0.05587	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.9	1.05	0.09373	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.92	1.05	0.09373	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.9	1.05	0.08511	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.92	1.05	0.08511	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.9	1.05	0.05139	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.92	1.05	0.05139	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.9	1.05	0.05127	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.92	1.05	0.05127	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.983544	0.911925	0.0716185	0.92088	0.92	1.05	0.07001	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.9	1.05	0.07489	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.92	1.05	0.07489	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.9	1.05	0.07489	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.92	1.05	0.07489	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUNION 345KV'	1.00709	0.914137	0.0929529	0.95798	0.92	1.05	0.09764	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	3	21L	G15_099	'OKLAUNION 345KV'	1.007522	0.919352	0.0881696	0.9614	0.92	1.05	0.09771	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.9	1.05	0.11565	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.92	1.05	0.11565	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.9	1.05	0.11565	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.92	1.05	0.11565	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.9	1.05	0.11565	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.92	1.05	0.11565	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.9	1.05	0.11565	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.92	1.05	0.11565	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.9	1.05	0.05127	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.92	1.05	0.05127	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.984823	0.911952	0.0728713	0.90675	0.92	1.05	0.10457	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.9	1.05	0.04497	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.92	1.05	0.04497	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.07443	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.07443	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.07443	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.07443	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07657	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07657	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07657	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07657	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.07059	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.07059	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.13638	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.13638	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G15_099	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.13847	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G15_099	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.13847	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06582	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06582	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06582	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06582	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04349	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04349	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04349	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04349	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.04282	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.04282	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.04282	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.04282	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.9	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.92	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981565	0.901514	0.0800511	0.90675	0.92	1.05	0.0447	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981565	0.901514	0.0800511	0.90675	0.92	1.05	0.0447	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.9	1.05	0.22247	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.92	1.05	0.22247	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.9	1.05	0.08242	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.92	1.05	0.08242	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.9	1.05	0.10576	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.92	1.05	0.10576	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.9	1.05	0.07169	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.92	1.05	0.07169	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.9	1.05	0.07164	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.92	1.05	0.07164	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06363	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06363	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.06764	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.06764	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.988788	0.915697	0.0730912	0.92088	0.92	1.05	0.06372	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.92	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.9	1.05	0.06653	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.92	1.05	0.06653	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.06202	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.06202	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.98162	0.900538	0.081082	0.90675	0.92	1.05	0.23259	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981681	0.900067	0.081614	0.90675	0.92	1.05	0.23259	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976702	0.815678	0.161024	0.8222	0.9	1.05	0.1035	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976702	0.815678	0.161024	0.8222	0.92	1.05	0.1035	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.08091	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.08091	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.81969	0.18031	0.82646	0.9	1.05	0.07239	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.81969	0.18031	0.82646	0.92	1.05	0.07239	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.9	1.05	0.2295	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	17WP	G15_099	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.92	1.05	0.2295	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G15_099	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.9	1.05	0.2295	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G15_099	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.92	1.05	0.2295	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.9	1.05	0.22321	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.92	1.05	0.22321	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.9	1.05	0.22321	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.92	1.05	0.22321	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G15_099	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.9	1.05	0.22196	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G15_099	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.92	1.05	0.22196	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G15_099	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.9	1.05	0.22196	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G15_099	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.92	1.05	0.22196	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.9	1.05	0.23259	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.92	1.05	0.23259	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	18G	G15_099	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.16377	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	18G	G15_099	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.16377	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G15_099	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.9	1.05	0.13493	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G15_099	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.92	1.05	0.13493	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21SP	G15_099	'OKLAUNION 345KV'	0.952946	0.916513	0.0364331	0.98214	0.92	1.05	0.16161	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21SP	G15_099	'OKLAUNION 345KV'	0.952947	0.916475	0.0364715	0.98214	0.92	1.05	0.16161	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G15_099	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.9	1.05	0.15541	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G15_099	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.92	1.05	0.15541	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G15_099	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.9	1.05	0.15541	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G15_099	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.92	1.05	0.15541	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	18G	G15_099	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.16391	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	18G	G15_099	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.16391	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G15_099	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.9	1.05	0.13508	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G15_099	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.92	1.05	0.13508	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21SP	G15_099	'OKLAUNION 345KV'	0.952924	0.917157	0.0357668	0.98247	0.92	1.05	0.16169	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNSLock	06ALL	3	21SP	G15_099	'OKLAUNION 345KV'	0.952923	0.917124	0.0357989	0.98247	0.92	1.05	0.16169	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	G15_099	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.9	1.05	0.15552	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	G15_099	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.92	1.05	0.15552	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G15_099	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.9	1.05	0.15552	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G15_099	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.92	1.05	0.15552	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979327	0.821411	0.157916	0.82646	0.9	1.05	0.10545	'OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979327	0.821411	0.157916	0.82646	0.92	1.05	0.10545	'OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06468	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06468	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.0656	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.0656	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.0656	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.0656	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.9	1.05	0.21372	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.92	1.05	0.21372	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G15_099	'OKLAUNION 345KV'	1.009207	0.908781	0.100426	0.95798	0.92	1.05	0.18452	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G15_099	'OKLAUNION 345KV'	1.005411	0.919559	0.0858518	0.96111	0.92	1.05	0.19922	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.9	1.05	0.22247	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.92	1.05	0.22247	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.9	1.05	0.22247	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.92	1.05	0.22247	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.9	1.05	0.09041	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.92	1.05	0.09041	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.9	1.05	0.09041	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.92	1.05	0.09041	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.99073	0.919197	0.071533	0.90675	0.92	1.05	0.11992	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.22321	System Intact
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.22321	System Intact
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.19347	System Intact
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.19347	System Intact
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.23259	System Intact
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.23259	System Intact
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979428	0.826461	0.152967	0.82646	0.95	1.05	0.22247	System Intact
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.9	1.05	0.10576	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.92	1.05	0.10576	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.9	1.05	0.07159	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.92	1.05	0.07159	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.9	1.05	0.07173	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.92	1.05	0.07173	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.92	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.92	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977732	0.810058	0.167674	0.8222	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G15_099	'OKLAUNION 345KV'	0.977732	0.810058	0.167674	0.8222	0.92	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981847	0.901375	0.0804722	0.90675	0.92	1.05	0.03975	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.9	1.05	0.22247	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.92	1.05	0.22247	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.04203	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.04203	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.04203	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.04203	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980323	0.90143	0.0788932	0.90675	0.92	1.05	0.23259	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G15_099	'OKLAUNION 345KV'	0.980313	0.901231	0.0790821	0.90675	0.92	1.05	0.23259	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.07705	System Intact
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.07705	System Intact
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 230KV'	0.999107	0.920025	0.0790821	0.92003	0.95	1.05	0.07492	System Intact
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.987669	0.874451	0.113217	0.88217	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.987669	0.874451	0.113217	0.88217	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	1	0.888072	0.111928	0.88217	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.978173	0.899788	0.0783843	0.91598	0.9	1.05	0.04394	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.976707	0.895245	0.0814623	0.91598	0.9	1.05	0.20272	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.976783	0.894322	0.0824615	0.91598	0.9	1.05	0.20272	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983742	0.88479	0.0989521	0.8984	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983742	0.88479	0.0989521	0.8984	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.98763	0.874154	0.113476	0.88217	0.9	1.05	0.19617	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	1	0.891394	0.108606	0.88217	0.9	1.05	0.19617	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.98772	0.87598	0.11174	0.88217	0.9	1.05	0.05587	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.976402	0.896065	0.0803373	0.91598	0.9	1.05	0.04006	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	1	0.890089	0.109911	0.88217	0.9	1.05	0.20758	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.987702	0.875053	0.112649	0.88217	0.9	1.05	0.19617	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.98753	0.873304	0.114226	0.88217	0.9	1.05	0.19617	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.978239	0.895983	0.0822566	0.91598	0.9	1.05	0.07489	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	1	0.873377	0.126623	0.88217	0.9	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.873885	0.113808	0.88217	0.9	1.05	0.19617	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.987989	0.890881	0.0971085	0.88217	0.9	1.05	0.08242	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983824	0.887861	0.0959628	0.8984	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	1	0.876923	0.123077	0.88217	0.9	1.05	0.07239	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.977311	0.890959	0.0863523	0.91598	0.9	1.05	0.20272	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.987615	0.877089	0.110525	0.88217	0.9	1.05	0.10545	'OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.987718	0.875335	0.112383	0.88217	0.9	1.05	0.19617	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	1	0.887851	0.112149	0.88217	0.9	1.05	0.19617	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.18531	System Intact
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.18531	System Intact
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.20272	System Intact
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.20272	System Intact
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.882171	0.105522	0.88217	0.95	1.05	0.19617	System Intact
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.978713	0.886244	0.0924695	0.91598	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.978713	0.886244	0.0924695	0.91598	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.98399	0.888512	0.0954778	0.8984	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21WP	G15_099	'POTTER COUNTY INTERCHANGE 345KV'	0.98811	0.888961	0.0991488	0.88217	0.9	1.05	0.19617	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNSLock	06ALL	2	18SP	G15_099	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.92	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'ROBERTS COUNTY TAP 69KV'	1.019254	1.056662	0.0374085	1.02375	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	0.99168	0.912161	0.0795189	0.91779	0.92	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	0.99168	0.912161	0.0795189	0.91779	0.92	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.06722	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.06722	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.9	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.92	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 115KV'	0.989482	0.91903	0.0704518	0.94503	0.92	1.05	0.08511	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	0.991221	0.912006	0.0792154	0.91779	0.92	1.05	0.05587	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	0.991273	0.912663	0.07861	0.91779	0.92	1.05	0.05587	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	0.989353	0.912742	0.076611	0.91779	0.92	1.05	0.11565	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	0.989352	0.912741	0.0766112	0.91779	0.92	1.05	0.11565	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	0.988367	0.910602	0.077765	0.91779	0.92	1.05	0.05127	'GEN520947 1-HUGO1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07657	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07657	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	1	0.911987	0.0880125	0.91779	0.92	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	0.991586	0.912618	0.0789678	0.91779	0.92	1.05	0.10545	'MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 115KV'	0.991586	0.912521	0.0790656	0.91779	0.92	1.05	0.10545	'OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 115KV'	0.975588	0.910931	0.0646564	0.95684	0.92	1.05	0.09041	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 115KV'	0.974107	0.911925	0.062182	0.95684	0.92	1.05	0.09041	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.9	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.92	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	0.97064	0.903145	0.067495	0.90842	0.92	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	0.97064	0.903145	0.067495	0.90842	0.92	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	1	0.915479	0.0845211	0.90842	0.92	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.06722	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.06722	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.95464	0.915326	0.0393143	0.9309	0.92	1.05	0.04394	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.972962	0.912699	0.060263	0.9309	0.92	1.05	0.09232	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.964962	0.908186	0.0567757	0.9309	0.92	1.05	0.0416	'CHISHOLM6 230.00 - ELK CITY 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'SHAMROCK 69KV'	0.967834	0.914151	0.053683	0.96076	0.92	1.05	0.09461	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.9	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.92	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.971364	0.905931	0.0654329	0.9309	0.92	1.05	0.08511	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	0.9702	0.902855	0.0673447	0.90842	0.92	1.05	0.05587	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.954453	0.918686	0.0357667	0.9309	0.92	1.05	0.04006	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	1	0.916379	0.0836212	0.90842	0.92	1.05	0.20758	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.0416	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.0416	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.97221	0.912887	0.0593234	0.9309	0.92	1.05	0.08511	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.955257	0.910689	0.0445682	0.9309	0.92	1.05	0.07489	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	0.9685	0.903615	0.0648848	0.90842	0.92	1.05	0.11565	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	0.9685	0.903615	0.0648851	0.90842	0.92	1.05	0.11565	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	0.967541	0.901347	0.0661935	0.90842	0.92	1.05	0.05127	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07657	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07657	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G15_099	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.2372	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	1	0.902947	0.0970531	0.90842	0.92	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SHAMROCK 69KV'	0.970354	0.916817	0.0535374	0.90842	0.92	1.05	0.08242	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 69KV'	0.955735	0.917017	0.0387179	0.94142	0.92	1.05	0.10576	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	18G	G15_099	'SHAMROCK 69KV'	0.972404	0.918616	0.0537882	0.94142	0.92	1.05	0.21372	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.9	1.05	0.09041	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.92	1.05	0.09041	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.9	1.05	0.09041	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.92	1.05	0.09041	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G15_099	'SHAMROCK 69KV'	0.961202	0.917197	0.0440053	0.94142	0.92	1.05	0.10576	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.954056	0.912626	0.0414308	0.9309	0.92	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SHAMROCK 69KV'	0.954056	0.912626	0.0414308	0.9309	0.92	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.992182	0.881688	0.110494	0.88941	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.992182	0.881688	0.110494	0.88941	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SPNSPUR_WND7345.00 345KV'	1	0.895314	0.104686	0.88941	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.988533	0.893715	0.0948179	0.90737	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.988533	0.893715	0.0948179	0.90737	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.992226	0.883218	0.109008	0.88941	0.9	1.05	0.05587	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SPNSPUR_WND7345.00 345KV'	1	0.897333	0.102667	0.88941	0.9	1.05	0.20758	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SPNSPUR_WND7345.00 345KV'	1	0.880613	0.119387	0.88941	0.9	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.992136	0.88441	0.107726	0.88941	0.9	1.05	0.10545	'MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.992454	0.898125	0.0943297	0.88941	0.9	1.05	0.08242	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.988603	0.896797	0.091805	0.90737	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G15_099	'SPNSPUR_WND7345.00 345KV'	1	0.88416	0.11584	0.88941	0.9	1.05	0.07239	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.992136	0.884327	0.107809	0.88941	0.9	1.05	0.10545	'OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.984596	0.892986	0.0916106	0.92273	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SPNSPUR_WND7345.00 345KV'	0.984596	0.892986	0.0916106	0.92273	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'SPNSPUR_WND7345.00 345KV'	0.988744	0.897451	0.0912929	0.90737	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNSLock	06ALL	2	18SP	G15_099	'STATELINE INTERCHANGE 115KV'	1.021039	1.075547	0.0545086	1.02261	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'STATELINE INTERCHANGE 230KV'	1.021124	1.069772	0.048648	1.01641	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05095	System Intact
FDNS	06ALL	0	21L	G15_099	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05095	System Intact
FDNS	06ALL	0	21WP	G15_099	'STATELINE INTERCHANGE 230KV'	0.999138	0.921867	0.0772707	0.92187	0.95	1.05	0.06565	System Intact
FDNSLock	06ALL	2	18SP	G15_099	'STLN-DEMARC6 230KV'	1.020763	1.077596	0.0568331	1.01717	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'STLN-DEMARC6 230KV'	1.003486	0.940168	0.0633178	0.94017	0.95	1.05	0.07751	System Intact
FDNSLock	06ALL	2	18SP	G15_099	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.9	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G15_099	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.92	1.05	0.04712	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'SWEETWATER 230KV'	1.005199	0.94769	0.0575091	0.94769	0.95	1.05	0.07751	System Intact
FDNS	06ALL	0	21SP	G15_099	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.05963	System Intact
FDNS	06ALL	0	21SP	G15_099	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.05963	System Intact
FDNS	06ALL	0	21L	G15_099	'TOLK STATION 345KV'	0.988694	0.932858	0.0558364	0.93286	0.95	1.05	0.16645	System Intact
FDNS	06ALL	0	21L	G15_099	'TOLK STATION 345KV'	0.988694	0.932858	0.0558364	0.93286	0.95	1.05	0.16645	System Intact
FDNS	06ALL	0	21WP	G15_099	'TOLK STATION 345KV'	0.998751	0.931691	0.0670596	0.93169	0.95	1.05	0.17973	System Intact
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 230KV'	0.997739	0.916717	0.0810212	0.93709	0.925	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 230KV'	0.997739	0.916717	0.0810212	0.93709	0.925	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'TUCO INTERCHANGE 345KV'	0.987103	0.897367	0.0897366	0.90252	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'TUCO INTERCHANGE 345KV'	0.987103	0.897367	0.0897366	0.90252	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980337	0.871075	0.109263	0.89054	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980337	0.871075	0.109263	0.89054	0.9	1.05	0.04948	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'TUCO INTERCHANGE 345KV'	0.986669	0.896838	0.0898305	0.90252	0.9	1.05	0.03757	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.986994	0.898432	0.088562	0.89054	0.9	1.05	0.17946	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G15_099	'TUCO INTERCHANGE 345KV'	0.987166	0.897297	0.0898693	0.90252	0.9	1.05	0.03757	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.05557	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.04662	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.05359	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.0534	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05692	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.98007	0.87691	0.10316	0.89054	0.9	1.05	0.05517	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.07013	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.0529	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.05682	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'TUCO INTERCHANGE 345KV'	0.987203	0.902522	0.0846803	0.90252	0.95	1.05	0.03757	System Intact
FDNS	06ALL	0	21L	G15_099	'TUCO INTERCHANGE 345KV'	0.981517	0.880907	0.10061	0.89054	0.9	1.05	0.03798	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G15_099	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09515	System Intact
FDNS	06ALL	0	21L	G15_099	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09515	System Intact
FDNS	06ALL	0	21WP	G15_099	'WALKEMEYER 7345.00 345KV'	1.007796	0.942456	0.0653399	0.94246	0.95	1.05	0.11707	System Intact
FDNS	06ALL	0	18G	G15_099	'WELLINGTON 138KV'	0.974511	0.90498	0.0695304	0.98387	0.92	1.05	0.09041	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.07505	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'XIT_INTG 6230.00 230KV'	0.989799	0.881384	0.108415	0.88805	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'XIT_INTG 6230.00 230KV'	0.989799	0.881384	0.108415	0.88805	0.9	1.05	0.157	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'XIT_INTG 6230.00 230KV'	1	0.893351	0.106649	0.88805	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.95668	0.872255	0.0844254	0.88972	0.9	1.05	0.04394	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.08708	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.08708	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.07565	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.07565	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.957466	0.87909	0.0783766	0.88972	0.9	1.05	0.09232	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.11746	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.95559	0.882665	0.0729249	0.88972	0.9	1.05	0.0416	'CHISHOLM6 230.00 - ELK CITY 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.955598	0.874507	0.0810914	0.88972	0.9	1.05	0.08511	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.954336	0.873399	0.080937	0.88972	0.9	1.05	0.14009	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'XIT_INTG 6230.00 230KV'	0.989832	0.882469	0.107363	0.88805	0.9	1.05	0.05587	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.955954	0.873539	0.0824149	0.88972	0.9	1.05	0.04006	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'XIT_INTG 6230.00 230KV'	1	0.894915	0.105085	0.88805	0.9	1.05	0.20758	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.0416	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.0416	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10457	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.955246	0.877048	0.0781975	0.88972	0.9	1.05	0.08511	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956451	0.881292	0.0751584	0.88972	0.9	1.05	0.07489	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.95642	0.868502	0.0879176	0.88972	0.9	1.05	0.07489	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.955979	0.884514	0.0714648	0.88972	0.9	1.05	0.0374	'GEN542962 2-IATAN UNIT #2'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.955566	0.884194	0.071372	0.88972	0.9	1.05	0.06764	'GEN640011 2-GERALD GENTLEMAN STATION UNIT 2'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.955134	0.874023	0.0811113	0.88972	0.9	1.05	0.14009	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07035	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G15_099	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.23858	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12395	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04774	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'XIT_INTG 6230.00 230KV'	1	0.880141	0.119859	0.88805	0.9	1.05	0.05004	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956663	0.88375	0.0729131	0.88972	0.9	1.05	0.0447	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956663	0.88375	0.0729131	0.88972	0.9	1.05	0.0447	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.955292	0.873096	0.0821962	0.88972	0.9	1.05	0.11992	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G15_099	'XIT_INTG 6230.00 230KV'	0.990057	0.895858	0.0941991	0.88805	0.9	1.05	0.08242	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.07228	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.07705	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.954897	0.874378	0.0805191	0.88972	0.9	1.05	0.11992	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.05963	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956892	0.881898	0.0749943	0.88972	0.9	1.05	0.07159	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956884	0.88173	0.0751533	0.88972	0.9	1.05	0.07173	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.954792	0.858261	0.0965316	0.88972	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.954792	0.858261	0.0965316	0.88972	0.9	1.05	0.06002	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956778	0.881682	0.0750968	0.88972	0.9	1.05	0.03975	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.31266	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.31266	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.04203	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.04203	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.04203	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G15_099	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.04203	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_121	'AMARILLO SOUTH INTERCHANGE 230KV'	1.003064	0.931739	0.0713246	0.93174	0.95	1.05	0.07284	System Intact
FDNS	06ALL	0	21L	G16_121	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.05541	System Intact
FDNS	06ALL	0	21L	G16_121	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.05541	System Intact
FDNS	06ALL	0	21WP	G16_121	'BADGER 345.00 345KV'	1.010793	0.94727	0.0635229	0.94727	0.95	1.05	0.06706	System Intact
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.05137	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'BORDER 7345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05721	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.05137	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04495	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.17245	System Intact
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.17245	System Intact
FDNS	06ALL	0	21SP	G16_121	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.20463	System Intact
FDNS	06ALL	0	21SP	G16_121	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.20463	System Intact
FDNS	06ALL	0	21WP	G16_121	'BORDER 7345.00 345KV'	0.973293	0.916543	0.0567498	0.91654	0.95	1.05	0.19603	System Intact
FDNS	06ALL	0	21L	G16_121	'BORDER 7345.00 345KV'	0.969786	0.86839	0.101396	0.87749	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNSLock	06ALL	2	18SP	G16_121	'BOWERS INTERCHANGE 69KV'	1.034897	1.071238	0.0363411	1.03926	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'BOWERS TAP 69KV'	1.024455	1.061259	0.0368036	1.02888	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.08623	System Intact
FDNS	06ALL	0	21SP	G16_121	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.08623	System Intact
FDNS	06ALL	0	21WP	G16_121	'BUSHLAND INTERCHANGE 230KV'	1.008722	0.932744	0.0759785	0.93274	0.95	1.05	0.08374	System Intact
FDNS	06ALL	0	21L	G16_121	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.09175	System Intact
FDNS	06ALL	0	21L	G16_121	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.09175	System Intact
FDNS	06ALL	0	21WP	G16_121	'BVRCNTY7 345.00 345KV'	1.006863	0.937326	0.0695368	0.93733	0.95	1.05	0.11104	System Intact
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.96842	0.890848	0.0775719	0.90812	0.9	1.05	0.0441	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.969176	0.897907	0.0712687	0.90812	0.9	1.05	0.09225	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.96764	0.893942	0.0736985	0.90812	0.9	1.05	0.085	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.966475	0.893047	0.0734277	0.90812	0.9	1.05	0.14019	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.967829	0.892317	0.075512	0.90812	0.9	1.05	0.04115	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.967369	0.896732	0.0706367	0.90812	0.9	1.05	0.085	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968277	0.899867	0.0684105	0.90812	0.9	1.05	0.07511	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968249	0.887365	0.0808841	0.90812	0.9	1.05	0.07511	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.967124	0.893546	0.0735774	0.90812	0.9	1.05	0.14019	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.967324	0.892308	0.0750153	0.90812	0.9	1.05	0.12001	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.967003	0.893665	0.0733384	0.90812	0.9	1.05	0.12001	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.966592	0.877529	0.0890628	0.90812	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.966592	0.877529	0.0890628	0.90812	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.32887	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.32887	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.03381	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.03381	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.03381	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_121	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.03381	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_121	'CHISHOLM6 230.00 230KV'	1.000288	0.948971	0.0513175	0.94897	0.95	1.05	0.07719	System Intact
FDNSLock	06ALL	2	18SP	G16_121	'COBRN_CREEK3115.00 115KV'	1.025514	1.086157	0.060643	1.03258	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'CRAWFISH_DR 345.00 345KV'	0.986452	0.894945	0.0915074	0.90018	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'CRAWFISH_DR 345.00 345KV'	0.986452	0.894945	0.0915074	0.90018	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.97954	0.868599	0.110941	0.88811	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.97954	0.868599	0.110941	0.88811	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'CRAWFISH_DR 345.00 345KV'	0.986024	0.894426	0.0915983	0.90018	0.9	1.05	0.20746	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.985125	0.893163	0.0919619	0.88811	0.9	1.05	0.17936	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'CRAWFISH_DR 345.00 345KV'	0.986513	0.894866	0.0916473	0.90018	0.9	1.05	0.20746	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.979218	0.874262	0.104955	0.88811	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.9807	0.888114	0.0925859	0.88811	0.95	1.05	0.17936	System Intact
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.9807	0.888114	0.0925859	0.88811	0.95	1.05	0.17936	System Intact
FDNS	06ALL	0	21WP	G16_121	'CRAWFISH_DR 345.00 345KV'	0.986551	0.900183	0.0863677	0.90018	0.95	1.05	0.20746	System Intact
FDNS	06ALL	0	21L	G16_121	'CRAWFISH_DR 345.00 345KV'	0.980699	0.87833	0.102369	0.88811	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_121	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.07563	System Intact
FDNS	06ALL	0	21SP	G16_121	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.07563	System Intact
FDNS	06ALL	0	21WP	G16_121	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.991095	0.92469	0.0664043	0.92469	0.95	1.05	0.07341	System Intact
FDNSLock	06ALL	2	18SP	G16_121	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.92	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'ELK_CT1 345.00 345KV'	0.987103	0.897366	0.0897368	0.90252	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'ELK_CT1 345.00 345KV'	0.987103	0.897366	0.0897368	0.90252	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980336	0.871074	0.109263	0.89054	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980336	0.871074	0.109263	0.89054	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.986993	0.898431	0.0885621	0.89054	0.9	1.05	0.17936	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980069	0.876909	0.10316	0.89054	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'ELK_CT1 345.00 345KV'	0.981517	0.880906	0.100611	0.89054	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.039841	1.070043	0.0302023	1.07636	0.9	1.05	0.06213	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.06983	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.06983	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.06983	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.06983	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.034487	1.055636	0.0211487	1.07636	0.9	1.05	0.03634	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.039885	1.066267	0.0263828	1.07636	0.9	1.05	0.08665	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.044674	1.071002	0.0263281	1.07636	0.9	1.05	0.26547	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03634	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03634	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.06962	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.06962	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.06962	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.06962	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.04416	1.070633	0.0264726	1.07636	0.9	1.05	0.09672	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04412	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04412	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03891	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03891	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04473	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_121	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04473	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_121	'EVA REGULATOR 69KV'	1	0.891847	0.108153	0.90099	0.9	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.99923	0.893822	0.105408	0.90694	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.99923	0.893822	0.105408	0.90694	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.996877	0.891114	0.105763	0.90694	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'FREWHELCOL17345.00 345KV'	0.999407	0.898982	0.100426	0.90694	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_121	'G06-44 115.00 115KV'	1.003684	0.898703	0.104981	0.91176	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G06-44 115.00 115KV'	1.003684	0.898703	0.104981	0.91176	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G06-44 115.00 115KV'	1.001334	0.896008	0.105326	0.91176	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14 345.00 345KV'	0.999401	0.898948	0.100453	0.90691	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_121	'G10-14-1 115.00 115KV'	1.002085	0.896928	0.105157	0.91001	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14-1 115.00 115KV'	1.002085	0.896928	0.105157	0.91001	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_121	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14-1 115.00 115KV'	0.99973	0.894228	0.105502	0.91001	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.05137	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'G1149G1504 345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05721	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.05137	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04495	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'G1149G1504 345.00 345KV'	0.969786	0.86839	0.101396	0.87749	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21WP	G16_121	'G16-045-SUB1345.00 345KV'	1	1.264422	0.264422	1.25588	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'G16-045-SUB2345.00 345KV'	1	1.2884	0.2884	1.27969	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'GEN-2016-057345.00 345KV'	1	1.276997	0.276997	1.26837	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'GEN-2016-057345.00 345KV'	1	1.324082	0.324082	1.31513	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.987726	0.889917	0.0978087	0.89794	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.987726	0.889917	0.0978087	0.89794	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.987686	0.8893	0.098386	0.89793	0.9	1.05	0.0636	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.987627	0.890547	0.0970804	0.89794	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.987721	0.890309	0.097412	0.89793	0.9	1.05	0.0636	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.987658	0.887568	0.10009	0.89793	0.9	1.05	0.0636	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.986245	0.893592	0.0926524	0.89794	0.9	1.05	0.11575	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.986045	0.890344	0.0957015	0.89794	0.9	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	1	0.889226	0.110774	0.89794	0.9	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.987716	0.887688	0.100028	0.89793	0.9	1.05	0.0636	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.98772	0.890597	0.0971233	0.89793	0.9	1.05	0.0636	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.04947	System Intact
FDNS	06ALL	0	21L	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.04947	System Intact
FDNS	06ALL	0	21WP	G16_121	'GRAPEVINE INTERCHANGE 230KV'	0.987715	0.897935	0.0897798	0.89794	0.95	1.05	0.0636	System Intact
FDNSLock	06ALL	2	18SP	G16_121	'Graves Sub 115KV'	1.02286	1.073505	0.0506449	1.02368	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'GRAVES SUB 69KV'	1.019223	1.076678	0.0574549	1.02628	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'GREENBELT REC-KELLERVILLE 69KV'	1.022793	1.059641	0.0368478	1.02722	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'GREENBELT REC-WHEELER 69KV'	1.018432	1.075929	0.0574974	1.02549	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.990685	0.878241	0.112444	0.89231	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.990685	0.878241	0.112444	0.89231	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.9924	0.899665	0.092734	0.906	0.9	1.05	0.06607	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.991623	0.897496	0.0941273	0.906	0.9	1.05	0.06607	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'HITCHLAND INTERCHANGE 230KV'	1	0.898257	0.101743	0.906	0.9	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.899397	0.0930243	0.906	0.9	1.05	0.06607	'MAJESTIC WIND 115KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.989009	0.876968	0.112041	0.89231	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05285	System Intact
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05285	System Intact
FDNS	06ALL	0	21SP	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07011	System Intact
FDNS	06ALL	0	21SP	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07011	System Intact
FDNS	06ALL	0	21WP	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.906	0.0864221	0.906	0.95	1.05	0.06607	System Intact
FDNS	06ALL	0	21L	G16_121	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.883832	0.107056	0.89231	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.17881	System Intact
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.17881	System Intact
FDNS	06ALL	0	21WP	G16_121	'Hitchland Interchange 345KV'	1.002146	0.922169	0.0799766	0.92217	0.95	1.05	0.21188	System Intact
FDNS	06ALL	0	21L	G16_121	'Hitchland Interchange 345KV'	0.999401	0.898948	0.100453	0.90691	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	18G	G16_121	'HOLLIS 138KV'	0.976893	0.911222	0.0656702	0.9869	0.92	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'HOLLIS TAP 138KV'	0.976866	0.911279	0.0655869	0.98686	0.92	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'HOPI SUB 115KV'	1.023085	1.051076	0.0279913	1.04506	0.9	1.05	0.32931	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'HOPI SUB 115KV'	1.023085	1.051076	0.0279913	1.04506	0.9	1.05	0.32931	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.9	1.05	0.07783	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.92	1.05	0.07783	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.9	1.05	0.07783	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.92	1.05	0.07783	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'KINGSMILL INTERCHANGE 69KV'	1.029913	1.052916	0.0230038	1.03322	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'LAWTON EASTSIDE 345KV'	0.988849	0.913434	0.0754145	0.97952	0.92	1.05	0.07511	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'LAWTON EASTSIDE 345KV'	0.989403	0.914396	0.0750066	0.97531	0.92	1.05	0.09672	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_121	'LAWTON EASTSIDE 345KV'	0.989431	0.918226	0.0712057	0.97728	0.92	1.05	0.09675	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.19389	System Intact
FDNS	06ALL	0	21L	G16_121	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.19389	System Intact
FDNSLock	06ALL	2	18SP	G16_121	'LYONS SUB 69KV'	1.014907	1.052071	0.0371634	1.01937	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'LYONS TAP 69KV'	1.02031	1.057277	0.0369672	1.02475	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'MAGIC CITY 69KV'	1.015956	1.073698	0.057742	1.02305	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'MCCULLOUGH SUB 69KV'	1.029286	1.058355	0.0290693	1.03294	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.9	1.05	0.0995	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.92	1.05	0.0995	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.9	1.05	0.0995	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.92	1.05	0.0995	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.03947	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.03947	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.03947	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.03947	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.984391	0.88238	0.102011	0.88973	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.984391	0.88238	0.102011	0.88973	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	1	0.89583	0.10417	0.88973	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.978709	0.889495	0.0892145	0.90209	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.978709	0.889495	0.0892145	0.90209	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.984361	0.88184	0.10252	0.88973	0.9	1.05	0.05767	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	1	0.899523	0.100477	0.88973	0.9	1.05	0.05767	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.984429	0.883546	0.100883	0.88973	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	1	0.897376	0.102624	0.88973	0.9	1.05	0.20746	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.9844	0.882784	0.101617	0.88973	0.9	1.05	0.05767	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.984013	0.880494	0.10352	0.88973	0.9	1.05	0.05767	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18SP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	1	0.880735	0.119265	0.88973	0.9	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.881206	0.103188	0.88973	0.9	1.05	0.05767	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.984782	0.898919	0.0858634	0.88973	0.9	1.05	0.08241	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.978672	0.891548	0.0871245	0.90209	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.958425	0.898039	0.0603866	0.922	0.9	1.05	0.0611	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.969552	0.897217	0.0723359	0.922	0.9	1.05	0.0611	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.981309	0.89794	0.0833692	0.922	0.9	1.05	0.0611	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.984412	0.88307	0.101342	0.88973	0.9	1.05	0.05767	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	1	0.895688	0.104312	0.88973	0.9	1.05	0.05767	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.0475	System Intact
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.0475	System Intact
FDNS	06ALL	0	21SP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.0611	System Intact
FDNS	06ALL	0	21SP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.0611	System Intact
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.889732	0.0946618	0.88973	0.95	1.05	0.05767	System Intact
FDNS	06ALL	0	21SP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.98052	0.896604	0.083916	0.92201	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.98052	0.896604	0.083916	0.92201	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.89435	0.0845755	0.90209	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21WP	G16_121	'MOORE COUNTY INTERCHANGE 230KV'	0.984493	0.896089	0.0884044	0.88973	0.9	1.05	0.05767	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_121	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.07124	System Intact
FDNS	06ALL	0	21SP	G16_121	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.07124	System Intact
FDNS	06ALL	0	21WP	G16_121	'NEWHART 230 230KV'	1.00408	0.937379	0.0667012	0.93738	0.95	1.05	0.06896	System Intact
FDNSLock	06ALL	2	18SP	G16_121	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.92	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 3115.00 115KV'	1.000531	0.897523	0.103008	0.9106	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 3115.00 115KV'	1.000531	0.897523	0.103008	0.9106	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 3115.00 115KV'	0.998723	0.894825	0.103898	0.9106	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.999252	0.893829	0.105423	0.90695	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.999252	0.893829	0.105423	0.90695	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.996893	0.891121	0.105771	0.90695	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'NOVUS1 7345.00 345KV'	0.99943	0.898988	0.100441	0.90695	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	2	21SP	G16_121	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.9	1.05	0.0995	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.92	1.05	0.0995	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.9	1.05	0.0995	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.92	1.05	0.0995	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.03947	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.03947	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_121	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.03947	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	2	21SP	G16_121	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.03947	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OCHILTREE 230KV'	0.981338	0.888149	0.0931889	0.89422	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OCHILTREE 230KV'	0.981338	0.888149	0.0931889	0.89422	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OCHILTREE 230KV'	1	0.899887	0.100113	0.89422	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.989658	0.874341	0.115317	0.88854	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.989658	0.874341	0.115317	0.88854	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OCHILTREE 230KV'	0.981367	0.889038	0.0923285	0.89422	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OCHILTREE 230KV'	1	0.886255	0.113745	0.89422	0.9	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.988305	0.873763	0.114542	0.88854	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OCHILTREE 230KV'	0.989866	0.879984	0.109882	0.88854	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.0726	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.0726	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979563	0.818514	0.161049	0.82662	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979563	0.818514	0.161049	0.82662	0.92	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979563	0.818514	0.161049	0.82662	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979563	0.818514	0.161049	0.82662	0.92	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.92	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.9	1.05	0.05137	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.92	1.05	0.05137	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.05541	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.05541	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.06706	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.06706	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.05541	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.05541	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.06706	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.06706	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.07114	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.07114	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06121	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06121	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06121	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06121	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.9865	0.909737	0.0767626	0.92105	0.92	1.05	0.04583	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.9	1.05	0.0441	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.92	1.05	0.0441	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.9	1.05	0.13106	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.92	1.05	0.13106	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1.002267	0.907976	0.0942918	0.9613	0.92	1.05	0.14902	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.9	1.05	0.13114	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.92	1.05	0.13114	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1.002849	0.912851	0.0899981	0.96336	0.92	1.05	0.14904	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.9	1.05	0.13899	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.92	1.05	0.13899	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03135	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03135	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03135	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03135	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08436	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08436	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.09705	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.09705	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.08623	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.08623	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.08623	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.08623	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.07487	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.07487	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.07487	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.07487	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.98716	0.904949	0.0822111	0.92105	0.92	1.05	0.09888	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.9	1.05	0.09225	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.92	1.05	0.09225	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12424	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12424	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12424	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12424	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.92	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.92	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.9873	0.910261	0.077039	0.92105	0.92	1.05	0.04259	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.9	1.05	0.04154	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.92	1.05	0.04154	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.9	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.92	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.9	1.05	0.09371	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.92	1.05	0.09371	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.9	1.05	0.085	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.92	1.05	0.085	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.9	1.05	0.04792	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.92	1.05	0.04792	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.988	0.912526	0.0754739	0.90693	0.92	1.05	0.14019	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.9	1.05	0.03583	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.92	1.05	0.03583	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.92	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	1.004016	0.909447	0.0945695	0.95817	0.92	1.05	0.12395	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	1.003876	0.916102	0.0877743	0.96159	0.92	1.05	0.12404	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.984929	0.914829	0.0701002	0.90693	0.92	1.05	0.04115	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980148	0.828259	0.151889	0.82236	0.9	1.05	0.17936	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980148	0.828259	0.151889	0.82236	0.92	1.05	0.17936	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.9	1.05	0.20746	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.92	1.05	0.20746	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.08531	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.08531	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04259	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04259	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04154	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04154	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04154	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04154	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11582	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11582	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11582	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11582	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11582	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11582	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.9	1.05	0.05721	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.92	1.05	0.05721	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.9	1.05	0.05721	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.92	1.05	0.05721	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.9	1.05	0.03583	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.92	1.05	0.03583	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.9	1.05	0.05586	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.92	1.05	0.05586	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.9	1.05	0.09371	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.92	1.05	0.09371	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.9	1.05	0.085	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.92	1.05	0.085	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.9	1.05	0.05137	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.92	1.05	0.05137	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.9	1.05	0.0513	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.92	1.05	0.0513	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.983732	0.912099	0.0716323	0.92105	0.92	1.05	0.06964	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.9	1.05	0.07511	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.92	1.05	0.07511	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.9	1.05	0.07511	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.92	1.05	0.07511	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	1.007264	0.914312	0.0929524	0.95817	0.92	1.05	0.09672	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	1.007696	0.919528	0.0881681	0.96159	0.92	1.05	0.09675	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.9	1.05	0.11575	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.92	1.05	0.11575	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.9	1.05	0.11575	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.92	1.05	0.11575	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.9	1.05	0.11575	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.92	1.05	0.11575	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.9	1.05	0.11575	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.92	1.05	0.11575	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.9	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.92	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.985011	0.912126	0.0728853	0.90693	0.92	1.05	0.10449	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.9	1.05	0.04495	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.92	1.05	0.04495	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07662	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07662	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07662	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07662	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.07045	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.07045	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.23906	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.23906	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.23906	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.23906	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.13802	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.13802	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.13971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.13971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06579	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06579	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06579	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06579	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.04286	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.04286	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.04286	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.04286	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.9	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.92	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.981753	0.901686	0.0800664	0.90693	0.92	1.05	0.03914	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.981753	0.901686	0.0800664	0.90693	0.92	1.05	0.03914	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.9	1.05	0.08241	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.92	1.05	0.08241	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.9	1.05	0.10597	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.92	1.05	0.10597	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.9	1.05	0.07165	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.92	1.05	0.07165	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.9	1.05	0.0716	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.92	1.05	0.0716	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06372	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06372	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.06761	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.06761	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.988977	0.915872	0.0731052	0.92105	0.92	1.05	0.06382	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.92	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.9	1.05	0.0665	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.92	1.05	0.0665	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.06196	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.06196	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976871	0.815834	0.161037	0.82236	0.9	1.05	0.09486	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.976871	0.815834	0.161037	0.82236	0.92	1.05	0.09486	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.07892	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.07892	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNSLock	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.819847	0.180153	0.82662	0.9	1.05	0.07942	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1	0.819847	0.180153	0.82662	0.92	1.05	0.07942	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06476	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06476	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.06557	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.06557	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.06557	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.06557	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.9	1.05	0.22112	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.92	1.05	0.22112	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	1.009382	0.908955	0.100427	0.95817	0.92	1.05	0.19247	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_121	'OKLAUN HVDC7345.00 345KV'	1.005603	0.919735	0.0858682	0.9613	0.92	1.05	0.20716	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.9	1.05	0.09047	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.92	1.05	0.09047	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.9	1.05	0.09047	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.92	1.05	0.09047	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.99092	0.919373	0.0715467	0.90693	0.92	1.05	0.12001	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.9	1.05	0.10597	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.92	1.05	0.10597	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.9	1.05	0.07156	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.92	1.05	0.07156	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.9	1.05	0.0717	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.92	1.05	0.0717	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.92	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.92	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977901	0.810213	0.167688	0.82236	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_121	'OKLAUN HVDC7345.00 345KV'	0.977901	0.810213	0.167688	0.82236	0.92	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.982034	0.901547	0.0804876	0.90693	0.92	1.05	0.03953	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.03381	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.03381	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.03381	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.03381	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.0726	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.0726	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979376	0.818358	0.161018	0.82646	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979376	0.818358	0.161018	0.82646	0.92	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979376	0.818358	0.161018	0.82646	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979376	0.818358	0.161018	0.82646	0.92	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.92	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.9	1.05	0.05137	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.92	1.05	0.05137	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.05541	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.05541	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.06706	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.06706	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.05541	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.05541	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.06706	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.06706	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.07114	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.07114	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.07114	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.07114	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.07114	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06121	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06121	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06121	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06121	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.986311	0.909563	0.076748	0.92088	0.92	1.05	0.04583	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.9	1.05	0.0441	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.92	1.05	0.0441	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.9	1.05	0.13106	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.92	1.05	0.13106	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_121	'OKLAUNION 345KV'	1.002076	0.907802	0.0942737	0.96111	0.92	1.05	0.14902	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_121	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.9	1.05	0.13114	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_121	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.92	1.05	0.13114	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G16_121	'OKLAUNION 345KV'	1.002657	0.912676	0.0899807	0.96317	0.92	1.05	0.14904	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.9	1.05	0.13899	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.92	1.05	0.13899	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.991068	0.915633	0.0754344	0.92088	0.92	1.05	0.22246	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.991068	0.915611	0.0754568	0.92088	0.92	1.05	0.22246	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.9	1.05	0.23301	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.92	1.05	0.23301	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.9	1.05	0.23301	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.92	1.05	0.23301	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03135	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03135	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03135	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03135	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08436	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08436	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05676	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.09705	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.09705	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.08623	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.08623	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.08623	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.08623	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.07487	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.07487	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.07487	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.07487	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.9	1.05	0.23301	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.92	1.05	0.23301	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.9	1.05	0.23301	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.92	1.05	0.23301	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.986971	0.904776	0.0821953	0.92088	0.92	1.05	0.09888	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.9	1.05	0.09225	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.92	1.05	0.09225	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12424	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12424	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12424	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12424	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.92	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.92	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.9	1.05	0.22289	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.92	1.05	0.22289	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.987111	0.910087	0.0770242	0.92088	0.92	1.05	0.04259	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.9	1.05	0.04154	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.92	1.05	0.04154	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.9	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.92	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.9	1.05	0.09371	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.92	1.05	0.09371	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.9	1.05	0.085	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.92	1.05	0.085	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.9	1.05	0.04792	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.92	1.05	0.04792	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.987811	0.912352	0.0754595	0.90675	0.92	1.05	0.14019	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.9	1.05	0.22289	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.92	1.05	0.22289	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.9	1.05	0.03583	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.92	1.05	0.03583	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.92	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUNION 345KV'	1.003842	0.909273	0.0945696	0.95798	0.92	1.05	0.12395	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_121	'OKLAUNION 345KV'	1.003703	0.915927	0.0877757	0.9614	0.92	1.05	0.12404	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.984741	0.914654	0.070087	0.90675	0.92	1.05	0.04115	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.979978	0.8281	0.151878	0.8222	0.9	1.05	0.17936	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.979978	0.8281	0.151878	0.8222	0.92	1.05	0.17936	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.9	1.05	0.20746	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.92	1.05	0.20746	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.9	1.05	0.22289	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.92	1.05	0.22289	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.08531	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.08531	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.9	1.05	0.22289	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.92	1.05	0.22289	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04259	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04259	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04154	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04154	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04154	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04154	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11582	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11582	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11582	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11582	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11582	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11582	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.9	1.05	0.05721	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.92	1.05	0.05721	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.9	1.05	0.05721	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.92	1.05	0.05721	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.9	1.05	0.03583	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.92	1.05	0.03583	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.9	1.05	0.05586	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.92	1.05	0.05586	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.9	1.05	0.09371	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.92	1.05	0.09371	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.9	1.05	0.085	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.92	1.05	0.085	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.9	1.05	0.05137	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.92	1.05	0.05137	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.9	1.05	0.0513	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.92	1.05	0.0513	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.983544	0.911925	0.0716185	0.92088	0.92	1.05	0.06964	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.9	1.05	0.07511	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.92	1.05	0.07511	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.9	1.05	0.07511	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.92	1.05	0.07511	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUNION 345KV'	1.00709	0.914137	0.0929529	0.95798	0.92	1.05	0.09672	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_121	'OKLAUNION 345KV'	1.007522	0.919352	0.0881696	0.9614	0.92	1.05	0.09675	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.9	1.05	0.11575	'GEN515040 1-SEMINOLE 1G'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.92	1.05	0.11575	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.9	1.05	0.11575	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.92	1.05	0.11575	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.9	1.05	0.11575	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.92	1.05	0.11575	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.9	1.05	0.11575	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.92	1.05	0.11575	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.9	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.92	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.984823	0.911952	0.0728713	0.90675	0.92	1.05	0.10449	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.9	1.05	0.04495	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.92	1.05	0.04495	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07662	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07662	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07662	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07662	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.07045	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.07045	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.23906	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.23906	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.23906	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.23906	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.13802	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.13802	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_121	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.13971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_121	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.13971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06579	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06579	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06579	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06579	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.04286	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.04286	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.04286	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.04286	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.9	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.92	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981565	0.901514	0.0800511	0.90675	0.92	1.05	0.03914	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981565	0.901514	0.0800511	0.90675	0.92	1.05	0.03914	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.9	1.05	0.22289	'MAJESTIC WIND 115KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.92	1.05	0.22289	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.9	1.05	0.08241	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.92	1.05	0.08241	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.9	1.05	0.10597	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.92	1.05	0.10597	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.9	1.05	0.07165	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.92	1.05	0.07165	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.9	1.05	0.0716	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.92	1.05	0.0716	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06372	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06372	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.06761	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.06761	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.988788	0.915697	0.0730912	0.92088	0.92	1.05	0.06382	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.92	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.9	1.05	0.0665	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.92	1.05	0.0665	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.06196	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.06196	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.98162	0.900538	0.081082	0.90675	0.92	1.05	0.23301	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981681	0.900067	0.081614	0.90675	0.92	1.05	0.23301	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976702	0.815678	0.161024	0.8222	0.9	1.05	0.09486	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976702	0.815678	0.161024	0.8222	0.92	1.05	0.09486	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.07892	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.07892	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.81969	0.18031	0.82646	0.9	1.05	0.07942	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.81969	0.18031	0.82646	0.92	1.05	0.07942	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.9	1.05	0.22875	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	17WP	G16_121	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.92	1.05	0.22875	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G16_121	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.9	1.05	0.22875	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G16_121	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.92	1.05	0.22875	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.9	1.05	0.22246	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.92	1.05	0.22246	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.9	1.05	0.22246	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.92	1.05	0.22246	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G16_121	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.9	1.05	0.2215	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G16_121	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.92	1.05	0.2215	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G16_121	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.9	1.05	0.2215	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G16_121	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.92	1.05	0.2215	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.9	1.05	0.23301	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.92	1.05	0.23301	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	18G	G16_121	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.16296	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	18G	G16_121	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.16296	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_121	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.9	1.05	0.13411	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_121	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.92	1.05	0.13411	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21SP	G16_121	'OKLAUNION 345KV'	0.952946	0.916513	0.0364331	0.98214	0.92	1.05	0.1608	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21SP	G16_121	'OKLAUNION 345KV'	0.952947	0.916475	0.0364715	0.98214	0.92	1.05	0.1608	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G16_121	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.9	1.05	0.1546	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G16_121	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.92	1.05	0.1546	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G16_121	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.9	1.05	0.1546	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G16_121	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.92	1.05	0.1546	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	18G	G16_121	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.16305	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	18G	G16_121	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.16305	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G16_121	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.9	1.05	0.13421	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G16_121	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.92	1.05	0.13421	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21SP	G16_121	'OKLAUNION 345KV'	0.952924	0.917157	0.0357668	0.98247	0.92	1.05	0.16082	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21SP	G16_121	'OKLAUNION 345KV'	0.952923	0.917124	0.0357989	0.98247	0.92	1.05	0.16082	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	G16_121	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.9	1.05	0.15465	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	3	21WP	G16_121	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.92	1.05	0.15465	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G16_121	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.9	1.05	0.15465	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G16_121	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.92	1.05	0.15465	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06476	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06476	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.06557	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.06557	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.06557	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.06557	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.9	1.05	0.22112	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.92	1.05	0.22112	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_121	'OKLAUNION 345KV'	1.009207	0.908781	0.100426	0.95798	0.92	1.05	0.19247	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_121	'OKLAUNION 345KV'	1.005411	0.919559	0.0858518	0.96111	0.92	1.05	0.20716	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.9	1.05	0.22289	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.92	1.05	0.22289	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.9	1.05	0.22289	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.92	1.05	0.22289	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.9	1.05	0.09047	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.92	1.05	0.09047	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.9	1.05	0.09047	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.92	1.05	0.09047	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.99073	0.919197	0.071533	0.90675	0.92	1.05	0.12001	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.22246	System Intact
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.22246	System Intact
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.19389	System Intact
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.19389	System Intact
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.23301	System Intact
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.23301	System Intact
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979428	0.826461	0.152967	0.82646	0.95	1.05	0.22289	System Intact
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.9	1.05	0.10597	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.92	1.05	0.10597	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.9	1.05	0.07156	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.92	1.05	0.07156	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.9	1.05	0.0717	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.92	1.05	0.0717	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.92	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.92	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977732	0.810058	0.167674	0.8222	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_121	'OKLAUNION 345KV'	0.977732	0.810058	0.167674	0.8222	0.92	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981847	0.901375	0.0804722	0.90675	0.92	1.05	0.03953	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.9	1.05	0.22289	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.92	1.05	0.22289	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.03381	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.03381	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.03381	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.03381	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980323	0.90143	0.0788932	0.90675	0.92	1.05	0.23301	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_121	'OKLAUNION 345KV'	0.980313	0.901231	0.0790821	0.90675	0.92	1.05	0.23301	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.07622	System Intact
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.07622	System Intact
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 230KV'	0.999107	0.920025	0.0790821	0.92003	0.95	1.05	0.0741	System Intact
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.987669	0.874451	0.113217	0.88217	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.987669	0.874451	0.113217	0.88217	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	1	0.888072	0.111928	0.88217	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.978173	0.899788	0.0783843	0.91598	0.9	1.05	0.0441	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.976707	0.895245	0.0814623	0.91598	0.9	1.05	0.20451	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.976783	0.894322	0.0824615	0.91598	0.9	1.05	0.20451	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983742	0.88479	0.0989521	0.8984	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983742	0.88479	0.0989521	0.8984	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.98763	0.874154	0.113476	0.88217	0.9	1.05	0.19797	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	1	0.891394	0.108606	0.88217	0.9	1.05	0.19797	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.98772	0.87598	0.11174	0.88217	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.976402	0.896065	0.0803373	0.91598	0.9	1.05	0.04115	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	1	0.890089	0.109911	0.88217	0.9	1.05	0.20746	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.987702	0.875053	0.112649	0.88217	0.9	1.05	0.19797	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.98753	0.873304	0.114226	0.88217	0.9	1.05	0.19797	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.978239	0.895983	0.0822566	0.91598	0.9	1.05	0.07511	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	1	0.873377	0.126623	0.88217	0.9	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.873885	0.113808	0.88217	0.9	1.05	0.19797	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.987989	0.890881	0.0971085	0.88217	0.9	1.05	0.08241	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983824	0.887861	0.0959628	0.8984	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	1	0.876923	0.123077	0.88217	0.9	1.05	0.07942	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.977311	0.890959	0.0863523	0.91598	0.9	1.05	0.20451	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.987718	0.875335	0.112383	0.88217	0.9	1.05	0.19797	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	1	0.887851	0.112149	0.88217	0.9	1.05	0.19797	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.1871	System Intact
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.1871	System Intact
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.20451	System Intact
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.20451	System Intact
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.882171	0.105522	0.88217	0.95	1.05	0.19797	System Intact
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.978713	0.886244	0.0924695	0.91598	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.978713	0.886244	0.0924695	0.91598	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.98399	0.888512	0.0954778	0.8984	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21WP	G16_121	'POTTER COUNTY INTERCHANGE 345KV'	0.98811	0.888961	0.0991488	0.88217	0.9	1.05	0.19797	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNSLock	06ALL	2	18SP	G16_121	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.92	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'ROBERTS COUNTY TAP 69KV'	1.019254	1.056662	0.0374085	1.02375	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 115KV'	0.99168	0.912161	0.0795189	0.91779	0.92	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 115KV'	0.99168	0.912161	0.0795189	0.91779	0.92	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.06706	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.06706	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.9	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.92	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 115KV'	0.989482	0.91903	0.0704518	0.94503	0.92	1.05	0.085	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 115KV'	0.991221	0.912006	0.0792154	0.91779	0.92	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 115KV'	0.991273	0.912663	0.07861	0.91779	0.92	1.05	0.05586	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 115KV'	0.989353	0.912742	0.076611	0.91779	0.92	1.05	0.11575	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 115KV'	0.989352	0.912741	0.0766112	0.91779	0.92	1.05	0.11575	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 115KV'	0.988367	0.910602	0.077765	0.91779	0.92	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07662	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07662	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	18SP	G16_121	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 115KV'	1	0.911987	0.0880125	0.91779	0.92	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 115KV'	0.975588	0.910931	0.0646564	0.95684	0.92	1.05	0.09047	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 115KV'	0.974107	0.911925	0.062182	0.95684	0.92	1.05	0.09047	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.9	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.92	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	0.97064	0.903145	0.067495	0.90842	0.92	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	0.97064	0.903145	0.067495	0.90842	0.92	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	1	0.915479	0.0845211	0.90842	0.92	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.06706	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.06706	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.95464	0.915326	0.0393143	0.9309	0.92	1.05	0.0441	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.972962	0.912699	0.060263	0.9309	0.92	1.05	0.09225	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.964962	0.908186	0.0567757	0.9309	0.92	1.05	0.04154	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'SHAMROCK 69KV'	0.967834	0.914151	0.053683	0.96076	0.92	1.05	0.09467	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.9	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.92	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.971364	0.905931	0.0654329	0.9309	0.92	1.05	0.085	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	0.9702	0.902855	0.0673447	0.90842	0.92	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.954453	0.918686	0.0357667	0.9309	0.92	1.05	0.04115	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	1	0.916379	0.0836212	0.90842	0.92	1.05	0.20746	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04154	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04154	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.97221	0.912887	0.0593234	0.9309	0.92	1.05	0.085	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.955257	0.910689	0.0445682	0.9309	0.92	1.05	0.07511	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	0.9685	0.903615	0.0648848	0.90842	0.92	1.05	0.11575	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	0.9685	0.903615	0.0648851	0.90842	0.92	1.05	0.11575	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	0.967541	0.901347	0.0661935	0.90842	0.92	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07662	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07662	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.23906	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_121	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.23906	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	1	0.902947	0.0970531	0.90842	0.92	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SHAMROCK 69KV'	0.970354	0.916817	0.0535374	0.90842	0.92	1.05	0.08241	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 69KV'	0.955735	0.917017	0.0387179	0.94142	0.92	1.05	0.10597	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_121	'SHAMROCK 69KV'	0.972404	0.918616	0.0537882	0.94142	0.92	1.05	0.22112	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.9	1.05	0.09047	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.92	1.05	0.09047	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.9	1.05	0.09047	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.92	1.05	0.09047	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_121	'SHAMROCK 69KV'	0.961202	0.917197	0.0440053	0.94142	0.92	1.05	0.10597	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.954056	0.912626	0.0414308	0.9309	0.92	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SHAMROCK 69KV'	0.954056	0.912626	0.0414308	0.9309	0.92	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.992182	0.881688	0.110494	0.88941	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.992182	0.881688	0.110494	0.88941	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SPNSPUR_WND7345.00 345KV'	1	0.895314	0.104686	0.88941	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.988533	0.893715	0.0948179	0.90737	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.988533	0.893715	0.0948179	0.90737	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.992226	0.883218	0.109008	0.88941	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	G16_121	'SPNSPUR_WND7345.00 345KV'	1	0.897333	0.102667	0.88941	0.9	1.05	0.20746	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SPNSPUR_WND7345.00 345KV'	1	0.880613	0.119387	0.88941	0.9	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.992454	0.898125	0.0943297	0.88941	0.9	1.05	0.08241	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.988603	0.896797	0.091805	0.90737	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_121	'SPNSPUR_WND7345.00 345KV'	1	0.88416	0.11584	0.88941	0.9	1.05	0.07942	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.984596	0.892986	0.0916106	0.92273	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SPNSPUR_WND7345.00 345KV'	0.984596	0.892986	0.0916106	0.92273	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'SPNSPUR_WND7345.00 345KV'	0.988744	0.897451	0.0912929	0.90737	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNSLock	06ALL	2	18SP	G16_121	'STATELINE INTERCHANGE 115KV'	1.021039	1.075547	0.0545086	1.02261	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'STATELINE INTERCHANGE 230KV'	1.021124	1.069772	0.048648	1.01641	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05068	System Intact
FDNS	06ALL	0	21L	G16_121	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05068	System Intact
FDNS	06ALL	0	21WP	G16_121	'STATELINE INTERCHANGE 230KV'	0.999138	0.921867	0.0772707	0.92187	0.95	1.05	0.06538	System Intact
FDNSLock	06ALL	2	18SP	G16_121	'STLN-DEMARC6 230KV'	1.020763	1.077596	0.0568331	1.01717	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'STLN-DEMARC6 230KV'	1.003486	0.940168	0.0633178	0.94017	0.95	1.05	0.07719	System Intact
FDNSLock	06ALL	2	18SP	G16_121	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.9	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_121	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.92	1.05	0.04699	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'SWEETWATER 230KV'	1.005199	0.94769	0.0575091	0.94769	0.95	1.05	0.07719	System Intact
FDNS	06ALL	0	21SP	G16_121	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.05981	System Intact
FDNS	06ALL	0	21SP	G16_121	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.05981	System Intact
FDNS	06ALL	0	21L	G16_121	'TOLK STATION 345KV'	0.988694	0.932858	0.0558364	0.93286	0.95	1.05	0.17961	System Intact
FDNS	06ALL	0	21L	G16_121	'TOLK STATION 345KV'	0.988694	0.932858	0.0558364	0.93286	0.95	1.05	0.17961	System Intact
FDNS	06ALL	0	21WP	G16_121	'TOLK STATION 345KV'	0.998751	0.931691	0.0670596	0.93169	0.95	1.05	0.19293	System Intact
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 230KV'	0.997739	0.916717	0.0810212	0.93709	0.925	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 230KV'	0.997739	0.916717	0.0810212	0.93709	0.925	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'TUCO INTERCHANGE 345KV'	0.987103	0.897367	0.0897366	0.90252	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'TUCO INTERCHANGE 345KV'	0.987103	0.897367	0.0897366	0.90252	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980337	0.871075	0.109263	0.89054	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980337	0.871075	0.109263	0.89054	0.9	1.05	0.04253	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.986994	0.898432	0.088562	0.89054	0.9	1.05	0.17936	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.05541	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.0464	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.05333	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.05336	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05689	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.98007	0.87691	0.10316	0.89054	0.9	1.05	0.05514	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.0691	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05288	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.05701	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_121	'TUCO INTERCHANGE 345KV'	0.981517	0.880907	0.10061	0.89054	0.9	1.05	0.03775	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_121	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09505	System Intact

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_121	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09505	System Intact
FDNS	06ALL	0	21WP	G16_121	'WALKEMEYER 7345.00 345KV'	1.007796	0.942456	0.0653399	0.94246	0.95	1.05	0.11697	System Intact
FDNS	06ALL	0	18G	G16_121	'WELLINGTON 138KV'	0.974511	0.90498	0.0695304	0.98387	0.92	1.05	0.09047	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.07445	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'XIT_INTG 6230.00 230KV'	0.989799	0.881384	0.108415	0.88805	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'XIT_INTG 6230.00 230KV'	0.989799	0.881384	0.108415	0.88805	0.9	1.05	0.14839	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'XIT_INTG 6230.00 230KV'	1	0.893351	0.106649	0.88805	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.95668	0.872255	0.0844254	0.88972	0.9	1.05	0.0441	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.08623	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.08623	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.07487	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.07487	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.957466	0.87909	0.0783766	0.88972	0.9	1.05	0.09225	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.11726	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.95559	0.882665	0.0729249	0.88972	0.9	1.05	0.04154	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.955598	0.874507	0.0810914	0.88972	0.9	1.05	0.085	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.954336	0.873399	0.080937	0.88972	0.9	1.05	0.14019	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'XIT_INTG 6230.00 230KV'	0.989832	0.882469	0.107363	0.88805	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.955954	0.873539	0.0824149	0.88972	0.9	1.05	0.04115	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'XIT_INTG 6230.00 230KV'	1	0.894915	0.105085	0.88805	0.9	1.05	0.20746	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04154	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04154	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10449	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.955246	0.877048	0.0781975	0.88972	0.9	1.05	0.085	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956451	0.881292	0.0751584	0.88972	0.9	1.05	0.07511	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.95642	0.868502	0.0879176	0.88972	0.9	1.05	0.07511	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.955979	0.884514	0.0714648	0.88972	0.9	1.05	0.0374	'GEN542962 2-IATAN UNIT #2'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.955566	0.884194	0.071372	0.88972	0.9	1.05	0.06761	'GEN640011 2-GERALD GENTLEMAN STATION UNIT 2'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.955134	0.874023	0.0811113	0.88972	0.9	1.05	0.14019	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07011	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_121	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.23971	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12385	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04777	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'XIT_INTG 6230.00 230KV'	1	0.880141	0.119859	0.88805	0.9	1.05	0.05008	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956663	0.88375	0.0729131	0.88972	0.9	1.05	0.03914	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956663	0.88375	0.0729131	0.88972	0.9	1.05	0.03914	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.955292	0.873096	0.0821962	0.88972	0.9	1.05	0.12001	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_121	'XIT_INTG 6230.00 230KV'	0.990057	0.895858	0.0941991	0.88805	0.9	1.05	0.08241	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.07124	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.07622	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.954897	0.874378	0.0805191	0.88972	0.9	1.05	0.12001	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.05981	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956892	0.881898	0.0749943	0.88972	0.9	1.05	0.07156	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956884	0.88173	0.0751533	0.88972	0.9	1.05	0.0717	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.954792	0.858261	0.0965316	0.88972	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.954792	0.858261	0.0965316	0.88972	0.9	1.05	0.0497	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956778	0.881682	0.0750968	0.88972	0.9	1.05	0.03953	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.32887	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.32887	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.03381	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.03381	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.03381	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_121	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.03381	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_123	'AMARILLO SOUTH INTERCHANGE 230KV'	1.003064	0.931739	0.0713246	0.93174	0.95	1.05	0.05864	System Intact
FDNS	06ALL	0	21L	G16_123	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.06317	System Intact
FDNS	06ALL	0	21L	G16_123	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.06317	System Intact
FDNS	06ALL	0	21WP	G16_123	'BADGER 345.00 345KV'	1.010793	0.94727	0.0635229	0.94727	0.95	1.05	0.07482	System Intact
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'BORDER 7345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.15773	System Intact
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.15773	System Intact
FDNS	06ALL	0	21SP	G16_123	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.18992	System Intact
FDNS	06ALL	0	21SP	G16_123	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.18992	System Intact
FDNS	06ALL	0	21WP	G16_123	'BORDER 7345.00 345KV'	0.973293	0.916543	0.0567498	0.91654	0.95	1.05	0.18131	System Intact
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.969786	0.86839	0.101396	0.87749	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'BORDER 7345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'BOWERS INTERCHANGE 69KV'	1.034897	1.071238	0.0363411	1.03926	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'BOWERS TAP 69KV'	1.024455	1.061259	0.0368036	1.02888	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.07496	System Intact
FDNS	06ALL	0	21SP	G16_123	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.07496	System Intact
FDNS	06ALL	0	21WP	G16_123	'BUSHLAND INTERCHANGE 230KV'	1.008722	0.932744	0.0759785	0.93274	0.95	1.05	0.07248	System Intact
FDNS	06ALL	0	21L	G16_123	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.10134	System Intact
FDNS	06ALL	0	21L	G16_123	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.10134	System Intact
FDNS	06ALL	0	21WP	G16_123	'BVRCNTY7 345.00 345KV'	1.006863	0.937326	0.0695368	0.93733	0.95	1.05	0.12063	System Intact
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.96842	0.890848	0.0775719	0.90812	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.969176	0.897907	0.0712687	0.90812	0.9	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.96764	0.893942	0.0736985	0.90812	0.9	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.966475	0.893047	0.0734277	0.90812	0.9	1.05	0.13443	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.967829	0.892317	0.075512	0.90812	0.9	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968271	0.893636	0.0746344	0.90812	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968393	0.899	0.0693936	0.90812	0.9	1.05	0.20697	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968393	0.899	0.0693936	0.90812	0.9	1.05	0.20697	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.967369	0.896732	0.0706367	0.90812	0.9	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968277	0.899867	0.0684105	0.90812	0.9	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968249	0.887365	0.0808841	0.90812	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.967124	0.893546	0.0735774	0.90812	0.9	1.05	0.13443	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.967324	0.892308	0.0750153	0.90812	0.9	1.05	0.11609	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.967003	0.893665	0.0733384	0.90812	0.9	1.05	0.11609	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.07934	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_123	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.07934	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'CHISHOLM6 230.00 230KV'	1.000288	0.948971	0.0513175	0.94897	0.95	1.05	0.08108	System Intact
FDNSLock	06ALL	2	18SP	G16_123	'COBRN_CREEK3115.00 115KV'	1.025514	1.086157	0.060643	1.03258	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'CRAWFISH_DR 345.00 345KV'	0.986024	0.894426	0.0915983	0.90018	0.9	1.05	0.05636	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'CRAWFISH_DR 345.00 345KV'	0.986513	0.894866	0.0916473	0.90018	0.9	1.05	0.05636	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.979218	0.874262	0.104955	0.88811	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'CRAWFISH_DR 345.00 345KV'	0.986551	0.900183	0.0863677	0.90018	0.95	1.05	0.05636	System Intact
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.980699	0.87833	0.102369	0.88811	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.980371	0.869743	0.110627	0.88811	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'CRAWFISH_DR 345.00 345KV'	0.980371	0.869743	0.110627	0.88811	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.06793	System Intact
FDNS	06ALL	0	21SP	G16_123	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.06793	System Intact
FDNS	06ALL	0	21WP	G16_123	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.991095	0.92469	0.0664043	0.92469	0.95	1.05	0.0657	System Intact
FDNSLock	06ALL	2	18SP	G16_123	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.92	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980069	0.876909	0.10316	0.89054	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.981517	0.880906	0.100611	0.89054	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.98118	0.872152	0.109028	0.89054	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'ELK_CT1 345.00 345KV'	0.98118	0.872152	0.109028	0.89054	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.039841	1.070043	0.0302023	1.07636	0.9	1.05	0.06425	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.07522	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.07522	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.07522	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.07522	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.034487	1.055636	0.0211487	1.07636	0.9	1.05	0.03816	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.039885	1.066267	0.0263828	1.07636	0.9	1.05	0.26749	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.044674	1.071002	0.0263281	1.07636	0.9	1.05	0.72308	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03816	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03816	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.07195	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.07195	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.07195	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.07195	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.04416	1.070633	0.0264726	1.07636	0.9	1.05	0.08746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04407	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04407	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03866	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03866	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04444	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_123	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04444	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_123	'EVA REGULATOR 69KV'	1	0.891847	0.108153	0.90099	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.996877	0.891114	0.105763	0.90694	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.999407	0.898982	0.100426	0.90694	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.999305	0.895412	0.103893	0.90694	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'FREWHELCOL17345.00 345KV'	0.999305	0.895412	0.103893	0.90694	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G06-44 115.00 115KV'	1.001334	0.896008	0.105326	0.91176	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.999401	0.898948	0.100453	0.90691	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14 345.00 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14-1 115.00 115KV'	0.99973	0.894228	0.105502	0.91001	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14-1 115.00 115KV'	1.002161	0.898514	0.103647	0.91001	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G10-14-1 115.00 115KV'	1.002161	0.898514	0.103647	0.91001	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'G1149G1504 345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.969786	0.86839	0.101396	0.87749	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'G1149G1504 345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'G16-045-SUB1345.00 345KV'	1	1.264422	0.264422	1.25588	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'G16-045-SUB2345.00 345KV'	1	1.2884	0.2884	1.27969	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'GEN-2016-057345.00 345KV'	1	1.276997	0.276997	1.26837	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'GEN-2016-057345.00 345KV'	1	1.324082	0.324082	1.31513	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'GRAPEVINE INTERCHANGE 230KV'	0.987686	0.8893	0.098386	0.89793	0.9	1.05	0.06677	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'GRAPEVINE INTERCHANGE 230KV'	0.987627	0.890547	0.0970804	0.89794	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'GRAPEVINE INTERCHANGE 230KV'	0.987721	0.890309	0.097412	0.89793	0.9	1.05	0.06677	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'GRAPEVINE INTERCHANGE 230KV'	0.987658	0.887568	0.10009	0.89793	0.9	1.05	0.06677	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'GRAPEVINE INTERCHANGE 230KV'	0.986245	0.893592	0.0926524	0.89794	0.9	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_123	'GRAPEVINE INTERCHANGE 230KV'	0.986045	0.890344	0.0957015	0.89794	0.9	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_123	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'GRAPEVINE INTERCHANGE 230KV'	1	0.889226	0.110774	0.89794	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'GRAPEVINE INTERCHANGE 230KV'	0.987716	0.887688	0.100028	0.89793	0.9	1.05	0.06677	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'GRAPEVINE INTERCHANGE 230KV'	0.98772	0.890597	0.0971233	0.89793	0.9	1.05	0.06677	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.05264	System Intact
FDNS	06ALL	0	21L	G16_123	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.05264	System Intact
FDNS	06ALL	0	21WP	G16_123	'GRAPEVINE INTERCHANGE 230KV'	0.987715	0.897935	0.0897798	0.89794	0.95	1.05	0.06677	System Intact
FDNSLock	06ALL	2	18SP	G16_123	'Graves Sub 115KV'	1.02286	1.073505	0.0506449	1.02368	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'GRAVES SUB 69KV'	1.019223	1.076678	0.0574549	1.02628	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'GREENBELT REC-KELLERVILLE 69KV'	1.022793	1.059641	0.0368478	1.02722	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'GREENBELT REC-WHEELER 69KV'	1.018432	1.075929	0.0574974	1.02549	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.9924	0.899665	0.092734	0.906	0.9	1.05	0.06669	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.991623	0.897496	0.0941273	0.906	0.9	1.05	0.06669	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'HITCHLAND INTERCHANGE 230KV'	1	0.898257	0.101743	0.906	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.899397	0.0930243	0.906	0.9	1.05	0.06669	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.989009	0.876968	0.112041	0.89231	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05348	System Intact
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05348	System Intact
FDNS	06ALL	0	21SP	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07074	System Intact
FDNS	06ALL	0	21SP	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07074	System Intact
FDNS	06ALL	0	21WP	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.906	0.0864221	0.906	0.95	1.05	0.06669	System Intact
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.883832	0.107056	0.89231	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.990774	0.879976	0.110798	0.89231	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'HITCHLAND INTERCHANGE 230KV'	0.990774	0.879976	0.110798	0.89231	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.20226	System Intact
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.20226	System Intact
FDNS	06ALL	0	21WP	G16_123	'Hitchland Interchange 345KV'	1.002146	0.922169	0.0799766	0.92217	0.95	1.05	0.23532	System Intact
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.999401	0.898948	0.100453	0.90691	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'Hitchland Interchange 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'HOLLIS 138KV'	0.976893	0.911222	0.0656702	0.9869	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'HOLLIS TAP 138KV'	0.976866	0.911279	0.0655869	0.98686	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'HOPI SUB 115KV'	1.023085	1.051076	0.0279913	1.04506	0.9	1.05	0.10716	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'HOPI SUB 115KV'	1.023085	1.051076	0.0279913	1.04506	0.9	1.05	0.10716	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.9	1.05	0.08417	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.92	1.05	0.08417	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.9	1.05	0.08417	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.92	1.05	0.08417	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'KINGSMILL INTERCHANGE 69KV'	1.029913	1.052916	0.0230038	1.03322	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'LAWTON EASTSIDE 345KV'	0.988849	0.913434	0.0754145	0.97952	0.92	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'LAWTON EASTSIDE 345KV'	0.989403	0.914396	0.0750066	0.97531	0.92	1.05	0.08746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_123	'LAWTON EASTSIDE 345KV'	0.989431	0.918226	0.0712057	0.97728	0.92	1.05	0.0877	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.18026	System Intact
FDNS	06ALL	0	21L	G16_123	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.18026	System Intact
FDNSLock	06ALL	2	18SP	G16_123	'LYONS SUB 69KV'	1.014907	1.052071	0.0371634	1.01937	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'LYONS TAP 69KV'	1.02031	1.057277	0.0369672	1.02475	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'MAGIC CITY 69KV'	1.015956	1.073698	0.057742	1.02305	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'MCCULLOUGH SUB 69KV'	1.029286	1.058355	0.0290693	1.03294	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.9	1.05	0.10584	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.92	1.05	0.10584	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.9	1.05	0.10584	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.92	1.05	0.10584	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	1	0.89583	0.10417	0.88973	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.984361	0.88184	0.10252	0.88973	0.9	1.05	0.05884	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	1	0.899523	0.100477	0.88973	0.9	1.05	0.05884	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.984429	0.883546	0.100883	0.88973	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	1	0.897376	0.102624	0.88973	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.9844	0.882784	0.101617	0.88973	0.9	1.05	0.05884	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.984013	0.880494	0.10352	0.88973	0.9	1.05	0.05884	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18SP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	1	0.880735	0.119265	0.88973	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.881206	0.103188	0.88973	0.9	1.05	0.05884	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.984782	0.898919	0.0858634	0.88973	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.978672	0.891548	0.0871245	0.90209	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.958425	0.898039	0.0603866	0.922	0.9	1.05	0.06227	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.969552	0.897217	0.0723359	0.922	0.9	1.05	0.06227	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.981309	0.89794	0.0833692	0.922	0.9	1.05	0.06227	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.984412	0.88307	0.101342	0.88973	0.9	1.05	0.05884	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	1	0.895688	0.104312	0.88973	0.9	1.05	0.05884	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.04867	System Intact
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.04867	System Intact

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.06227	System Intact
FDNS	06ALL	0	21SP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.06227	System Intact
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.889732	0.0946618	0.88973	0.95	1.05	0.05884	System Intact
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.89435	0.0845755	0.90209	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.978815	0.891285	0.0875295	0.90209	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.978815	0.891285	0.0875295	0.90209	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'MOORE COUNTY INTERCHANGE 230KV'	0.984493	0.896089	0.0884044	0.88973	0.9	1.05	0.05884	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_123	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.07054	System Intact
FDNS	06ALL	0	21SP	G16_123	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.07054	System Intact
FDNS	06ALL	0	21WP	G16_123	'NEWHART 230 230KV'	1.00408	0.937379	0.0667012	0.93738	0.95	1.05	0.06826	System Intact
FDNSLock	06ALL	2	18SP	G16_123	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.92	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'NICHOLS STATION 230KV'	1.007788	0.942771	0.0650167	0.94277	0.95	1.05	0.03563	System Intact
FDNS	06ALL	0	21L	G16_123	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 3115.00 115KV'	0.998723	0.894825	0.103898	0.9106	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 3115.00 115KV'	1.000589	0.899108	0.101481	0.9106	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 3115.00 115KV'	1.000589	0.899108	0.101481	0.9106	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.996893	0.891121	0.105771	0.90695	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.99943	0.898988	0.100441	0.90695	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.999327	0.895419	0.103908	0.90695	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'NOVUS1 7345.00 345KV'	0.999327	0.895419	0.103908	0.90695	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.9	1.05	0.10584	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.92	1.05	0.10584	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.9	1.05	0.10584	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.92	1.05	0.10584	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_123	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OCHILTREE 230KV'	1	0.899887	0.100113	0.89422	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_123	'OCHILTREE 230KV'	0.981367	0.889038	0.0923285	0.89422	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OCHILTREE 230KV'	1	0.886255	0.113745	0.89422	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.988305	0.873763	0.114542	0.88854	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.989866	0.879984	0.109882	0.88854	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.989752	0.87607	0.113682	0.88854	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OCHILTREE 230KV'	0.989752	0.87607	0.113682	0.88854	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.06071	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.06071	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.92	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.9	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.92	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.9865	0.909737	0.0767626	0.92105	0.92	1.05	0.046	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.92	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.9	1.05	0.12063	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.92	1.05	0.12063	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1.002267	0.907976	0.0942918	0.9613	0.92	1.05	0.1386	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.9	1.05	0.12088	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.92	1.05	0.12088	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1.002849	0.912851	0.0899981	0.96336	0.92	1.05	0.13878	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.9	1.05	0.13635	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.92	1.05	0.13635	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.92	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.92	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08487	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08487	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.07809	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.07809	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.98716	0.904949	0.0822111	0.92105	0.92	1.05	0.09997	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.9	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.92	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.9873	0.910261	0.077039	0.92105	0.92	1.05	0.04198	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.9	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.92	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.9	1.05	0.09285	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.92	1.05	0.09285	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.9	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.92	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.9	1.05	0.04832	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.92	1.05	0.04832	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.988	0.912526	0.0754739	0.90693	0.92	1.05	0.13443	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.9	1.05	0.03602	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.92	1.05	0.03602	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.92	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	1.004016	0.909447	0.0945695	0.95817	0.92	1.05	0.11626	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	1.003876	0.916102	0.0877743	0.96159	0.92	1.05	0.11645	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.984929	0.914829	0.0701002	0.90693	0.92	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.92	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.98211	0.898251	0.0838595	0.90693	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.98211	0.898251	0.0838595	0.90693	0.92	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.07118	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.07118	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04198	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04198	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.9	1.05	0.05568	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.92	1.05	0.05568	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.9	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.92	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.9	1.05	0.03602	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.92	1.05	0.03602	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.9	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.92	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.9	1.05	0.09285	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.92	1.05	0.09285	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.9	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.92	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.9	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.92	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.9	1.05	0.05013	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.92	1.05	0.05013	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.983732	0.912099	0.0716323	0.92105	0.92	1.05	0.0687	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.9	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.92	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.92	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	1.007264	0.914312	0.0929524	0.95817	0.92	1.05	0.08746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	1.007696	0.919528	0.0881681	0.96159	0.92	1.05	0.0877	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.9	1.05	0.11183	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.92	1.05	0.11183	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.9	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.92	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.9	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.92	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.9	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.92	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.9	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.92	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.985011	0.912126	0.0728853	0.90693	0.92	1.05	0.10852	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.9	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.92	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.06798	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.06798	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.15207	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.15207	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.15065	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.15065	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.92	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.92	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.9	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.92	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.9	1.05	0.07382	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.92	1.05	0.07382	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.9	1.05	0.07377	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.92	1.05	0.07377	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06413	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06413	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.06902	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.06902	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.988977	0.915872	0.0731052	0.92105	0.92	1.05	0.06427	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.92	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.9	1.05	0.06803	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.92	1.05	0.06803	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.06031	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.06031	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.0634	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.0634	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.819847	0.180153	0.82662	0.9	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1	0.819847	0.180153	0.82662	0.92	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06515	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06515	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.9	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.92	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	1.009382	0.908955	0.100427	0.95817	0.92	1.05	0.25279	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_123	'OKLAUN HVDC7345.00 345KV'	1.005603	0.919735	0.0858682	0.9613	0.92	1.05	0.26749	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.9	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.92	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.9	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.92	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.99092	0.919373	0.0715467	0.90693	0.92	1.05	0.11609	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.9	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.92	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.9	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.92	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.9	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.92	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977901	0.810213	0.167688	0.82236	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.977901	0.810213	0.167688	0.82236	0.92	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUN HVDC7345.00 345KV'	0.982034	0.901547	0.0804876	0.90693	0.92	1.05	0.13049	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.92	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.92	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.06071	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.06071	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.92	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.9	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.92	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.986311	0.909563	0.076748	0.92088	0.92	1.05	0.046	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.92	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.9	1.05	0.12063	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.92	1.05	0.12063	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_123	'OKLAUNION 345KV'	1.002076	0.907802	0.0942737	0.96111	0.92	1.05	0.1386	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_123	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.9	1.05	0.12088	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_123	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.92	1.05	0.12088	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G16_123	'OKLAUNION 345KV'	1.002657	0.912676	0.0899807	0.96317	0.92	1.05	0.13878	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.9	1.05	0.13635	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.92	1.05	0.13635	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.991068	0.915633	0.0754344	0.92088	0.92	1.05	0.22033	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.991068	0.915611	0.0754568	0.92088	0.92	1.05	0.22033	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.9	1.05	0.21939	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.92	1.05	0.21939	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.9	1.05	0.21939	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.92	1.05	0.21939	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.92	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.92	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08487	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08487	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.07809	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.07809	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.9	1.05	0.21939	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.92	1.05	0.21939	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.9	1.05	0.21939	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.92	1.05	0.21939	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.986971	0.904776	0.0821953	0.92088	0.92	1.05	0.09997	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.9	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.92	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.9	1.05	0.20927	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.92	1.05	0.20927	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.987111	0.910087	0.0770242	0.92088	0.92	1.05	0.04198	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.9	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.92	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.9	1.05	0.09285	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.92	1.05	0.09285	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.9	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.92	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.9	1.05	0.04832	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.92	1.05	0.04832	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.987811	0.912352	0.0754595	0.90675	0.92	1.05	0.13443	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.9	1.05	0.20927	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.92	1.05	0.20927	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.9	1.05	0.03602	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.92	1.05	0.03602	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.92	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUNION 345KV'	1.003842	0.909273	0.0945696	0.95798	0.92	1.05	0.11626	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_123	'OKLAUNION 345KV'	1.003703	0.915927	0.0877757	0.9614	0.92	1.05	0.11645	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.984741	0.914654	0.070087	0.90675	0.92	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.92	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981922	0.898079	0.0838434	0.90675	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981922	0.898079	0.0838434	0.90675	0.92	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.9	1.05	0.20927	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.92	1.05	0.20927	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.07118	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.07118	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.9	1.05	0.20927	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.92	1.05	0.20927	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04198	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04198	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.9	1.05	0.05568	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.92	1.05	0.05568	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.9	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.92	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.9	1.05	0.03602	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.92	1.05	0.03602	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.9	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.92	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.9	1.05	0.09285	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.92	1.05	0.09285	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.9	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.92	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.9	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.92	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.9	1.05	0.05013	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.92	1.05	0.05013	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.983544	0.911925	0.0716185	0.92088	0.92	1.05	0.0687	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.9	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.92	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.92	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUNION 345KV'	1.00709	0.914137	0.0929529	0.95798	0.92	1.05	0.08746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_123	'OKLAUNION 345KV'	1.007522	0.919352	0.0881696	0.9614	0.92	1.05	0.0877	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.9	1.05	0.11183	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.92	1.05	0.11183	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.9	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.92	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.9	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.92	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.9	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.92	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.9	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.92	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.984823	0.911952	0.0728713	0.90675	0.92	1.05	0.10852	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.9	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.92	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.06798	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.06798	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.15207	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.15207	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_123	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.15065	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_123	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.15065	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.92	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.9	1.05	0.20927	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.92	1.05	0.20927	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.92	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.9	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.92	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.9	1.05	0.07382	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.92	1.05	0.07382	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.9	1.05	0.07377	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.92	1.05	0.07377	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06413	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06413	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.06902	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.06902	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.988788	0.915697	0.0730912	0.92088	0.92	1.05	0.06427	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.92	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.9	1.05	0.06803	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.92	1.05	0.06803	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.06031	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.06031	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.98162	0.900538	0.081082	0.90675	0.92	1.05	0.21939	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981681	0.900067	0.081614	0.90675	0.92	1.05	0.21939	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.0634	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.0634	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.81969	0.18031	0.82646	0.9	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.81969	0.18031	0.82646	0.92	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.9	1.05	0.2266	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	17WP	G16_123	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.92	1.05	0.2266	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G16_123	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.9	1.05	0.2266	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G16_123	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.92	1.05	0.2266	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.9	1.05	0.22033	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.92	1.05	0.22033	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.9	1.05	0.22033	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.92	1.05	0.22033	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G16_123	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.9	1.05	0.21907	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G16_123	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.92	1.05	0.21907	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G16_123	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.9	1.05	0.21907	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G16_123	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.92	1.05	0.21907	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.9	1.05	0.21939	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.92	1.05	0.21939	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	18G	G16_123	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.15472	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	18G	G16_123	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.15472	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_123	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.9	1.05	0.1258	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_123	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.92	1.05	0.1258	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21SP	G16_123	'OKLAUNION 345KV'	0.952946	0.916513	0.0364331	0.98214	0.92	1.05	0.15248	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21SP	G16_123	'OKLAUNION 345KV'	0.952947	0.916475	0.0364715	0.98214	0.92	1.05	0.15248	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G16_123	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.9	1.05	0.14628	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G16_123	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.92	1.05	0.14628	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G16_123	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.9	1.05	0.14628	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G16_123	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.92	1.05	0.14628	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	18G	G16_123	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.15491	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	18G	G16_123	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.15491	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G16_123	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.9	1.05	0.126	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G16_123	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.92	1.05	0.126	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21SP	G16_123	'OKLAUNION 345KV'	0.952924	0.917157	0.0357668	0.98247	0.92	1.05	0.15261	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21SP	G16_123	'OKLAUNION 345KV'	0.952923	0.917124	0.0357989	0.98247	0.92	1.05	0.15261	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	G16_123	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.9	1.05	0.14644	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	G16_123	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.92	1.05	0.14644	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G16_123	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.9	1.05	0.14644	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G16_123	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.92	1.05	0.14644	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06515	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06515	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.9	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.92	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_123	'OKLAUNION 345KV'	1.009207	0.908781	0.100426	0.95798	0.92	1.05	0.25279	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_123	'OKLAUNION 345KV'	1.005411	0.919559	0.0858518	0.96111	0.92	1.05	0.26749	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.9	1.05	0.20927	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.92	1.05	0.20927	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.9	1.05	0.20927	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.92	1.05	0.20927	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.9	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.92	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.9	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.92	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.99073	0.919197	0.071533	0.90675	0.92	1.05	0.11609	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.22033	System Intact
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.22033	System Intact
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.18026	System Intact
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.18026	System Intact
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.21939	System Intact
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.21939	System Intact
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979428	0.826461	0.152967	0.82646	0.95	1.05	0.20927	System Intact
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.9	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.92	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.9	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.92	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.9	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.92	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977732	0.810058	0.167674	0.8222	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977732	0.810058	0.167674	0.8222	0.92	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.981847	0.901375	0.0804722	0.90675	0.92	1.05	0.13049	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.92	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.92	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.9	1.05	0.20927	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.92	1.05	0.20927	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980323	0.90143	0.0788932	0.90675	0.92	1.05	0.21939	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_123	'OKLAUNION 345KV'	0.980313	0.901231	0.0790821	0.90675	0.92	1.05	0.21939	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.06227	System Intact
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.06227	System Intact
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 230KV'	0.999107	0.920025	0.0790821	0.92003	0.95	1.05	0.06014	System Intact
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	1	0.888072	0.111928	0.88217	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.978173	0.899788	0.0783843	0.91598	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.976707	0.895245	0.0814623	0.91598	0.9	1.05	0.27861	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.976783	0.894322	0.0824615	0.91598	0.9	1.05	0.27861	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.98763	0.874154	0.113476	0.88217	0.9	1.05	0.27206	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	1	0.891394	0.108606	0.88217	0.9	1.05	0.27206	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.98772	0.87598	0.11174	0.88217	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.976402	0.896065	0.0803373	0.91598	0.9	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	1	0.890089	0.109911	0.88217	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.977074	0.897986	0.0790876	0.91598	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.987702	0.875053	0.112649	0.88217	0.9	1.05	0.27206	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.98753	0.873304	0.114226	0.88217	0.9	1.05	0.27206	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.978239	0.895983	0.0822566	0.91598	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.04663	'Hitchland Interchange (H T880155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.04663	'Hitchland Interchange (H T880155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	1	0.873377	0.126623	0.88217	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.873885	0.113808	0.88217	0.9	1.05	0.27206	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.987989	0.890881	0.0971085	0.88217	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983824	0.887861	0.0959628	0.8984	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	1	0.876923	0.123077	0.88217	0.9	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.977311	0.890959	0.0863523	0.91598	0.9	1.05	0.27861	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.987718	0.875335	0.112383	0.88217	0.9	1.05	0.27206	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	1	0.887851	0.112149	0.88217	0.9	1.05	0.27206	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.2612	System Intact
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.2612	System Intact
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.27861	System Intact
FDNS	06ALL	0	21SP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.27861	System Intact
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.882171	0.105522	0.88217	0.95	1.05	0.27206	System Intact
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.98399	0.888512	0.0954778	0.8984	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983851	0.887131	0.0967205	0.8984	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.983851	0.887131	0.0967205	0.8984	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'POTTER COUNTY INTERCHANGE 345KV'	0.98811	0.888961	0.0991488	0.88217	0.9	1.05	0.27206	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNSLock	06ALL	2	18SP	G16_123	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.92	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'ROBERTS COUNTY TAP 69KV'	1.019254	1.056662	0.0374085	1.02375	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 115KV'	0.989482	0.91903	0.0704518	0.94503	0.92	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 115KV'	0.991221	0.912006	0.0792154	0.91779	0.92	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 115KV'	0.991273	0.912663	0.07861	0.91779	0.92	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 115KV'	0.989353	0.912742	0.076611	0.91779	0.92	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 115KV'	0.989352	0.912741	0.0766112	0.91779	0.92	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 115KV'	0.988367	0.910602	0.077765	0.91779	0.92	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 115KV'	1	0.911987	0.0880125	0.91779	0.92	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 115KV'	0.975588	0.910931	0.0646564	0.95684	0.92	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 115KV'	0.974107	0.911925	0.062182	0.95684	0.92	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 69KV'	1	0.915479	0.0845211	0.90842	0.92	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.95464	0.915326	0.0393143	0.9309	0.92	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.972962	0.912699	0.060263	0.9309	0.92	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.964962	0.908186	0.0567757	0.9309	0.92	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'SHAMROCK 69KV'	0.967834	0.914151	0.053683	0.96076	0.92	1.05	0.09304	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.971364	0.905931	0.0654329	0.9309	0.92	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 69KV'	0.9702	0.902855	0.0673447	0.90842	0.92	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.954453	0.918686	0.0357667	0.9309	0.92	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 69KV'	1	0.916379	0.0836212	0.90842	0.92	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.97221	0.912887	0.0593234	0.9309	0.92	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.955257	0.910689	0.0445682	0.9309	0.92	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 69KV'	0.9685	0.903615	0.0648848	0.90842	0.92	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 69KV'	0.9685	0.903615	0.0648851	0.90842	0.92	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 69KV'	0.967541	0.901347	0.0661935	0.90842	0.92	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_123	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 69KV'	1	0.902947	0.0970531	0.90842	0.92	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SHAMROCK 69KV'	0.970354	0.916817	0.0535374	0.90842	0.92	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 69KV'	0.955735	0.917017	0.0387179	0.94142	0.92	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNSLock	06ALL	0	18G	G16_123	'SHAMROCK 69KV'	0.972404	0.918616	0.0537882	0.94142	0.92	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.9	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.92	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.9	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.92	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_123	'SHAMROCK 69KV'	0.961202	0.917197	0.0440053	0.94142	0.92	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SPNSPUR_WND7345.00 345KV'	1	0.895314	0.104686	0.88941	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SPNSPUR_WND7345.00 345KV'	0.992226	0.883218	0.109008	0.88941	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SPNSPUR_WND7345.00 345KV'	1	0.897333	0.102667	0.88941	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SPNSPUR_WND7345.00 345KV'	1	0.880613	0.119387	0.88941	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SPNSPUR_WND7345.00 345KV'	0.992454	0.898125	0.0943297	0.88941	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.988603	0.896797	0.091805	0.90737	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_123	'SPNSPUR_WND7345.00 345KV'	1	0.88416	0.11584	0.88941	0.9	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.988744	0.897451	0.0912929	0.90737	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.988626	0.896065	0.0925612	0.90737	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'SPNSPUR_WND7345.00 345KV'	0.988626	0.896065	0.0925612	0.90737	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'STATELINE INTERCHANGE 115KV'	1.021039	1.075547	0.0545086	1.02261	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'STATELINE INTERCHANGE 230KV'	1.021124	1.069772	0.048648	1.01641	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05397	System Intact
FDNS	06ALL	0	21L	G16_123	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05397	System Intact
FDNS	06ALL	0	21WP	G16_123	'STATELINE INTERCHANGE 230KV'	0.999138	0.921867	0.0772707	0.92187	0.95	1.05	0.06866	System Intact
FDNSLock	06ALL	2	18SP	G16_123	'STLN-DEMARC6 230KV'	1.020763	1.077596	0.0568331	1.01717	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'STLN-DEMARC6 230KV'	1.003486	0.940168	0.0633178	0.94017	0.95	1.05	0.08108	System Intact
FDNSLock	06ALL	2	18SP	G16_123	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_123	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.92	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'SWEETWATER 230KV'	1.005199	0.94769	0.0575091	0.94769	0.95	1.05	0.08108	System Intact
FDNS	06ALL	0	21SP	G16_123	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.03761	System Intact
FDNS	06ALL	0	21SP	G16_123	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.03761	System Intact
FDNS	06ALL	0	21L	G16_123	'TOLK STATION 345KV'	0.988694	0.932858	0.0558364	0.93286	0.95	1.05	0.77674	System Intact
FDNS	06ALL	0	21L	G16_123	'TOLK STATION 345KV'	0.988694	0.932858	0.0558364	0.93286	0.95	1.05	0.77674	System Intact
FDNS	06ALL	0	21WP	G16_123	'TOLK STATION 345KV'	0.998751	0.931691	0.0670596	0.93169	0.95	1.05	0.79	System Intact
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 230KV'	0.998884	0.916269	0.0826147	0.93709	0.925	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 230KV'	0.998884	0.916269	0.0826147	0.93709	0.925	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.98007	0.87691	0.10316	0.89054	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.981517	0.880907	0.10061	0.89054	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.981181	0.872153	0.109028	0.89054	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'TUCO INTERCHANGE 345KV'	0.981181	0.872153	0.109028	0.89054	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_123	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09982	System Intact
FDNS	06ALL	0	21L	G16_123	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09982	System Intact
FDNS	06ALL	0	21WP	G16_123	'WALKEMEYER 7345.00 345KV'	1.007796	0.942456	0.0653399	0.94246	0.95	1.05	0.12173	System Intact
FDNS	06ALL	0	18G	G16_123	'WELLINGTON 138KV'	0.974511	0.90498	0.0695304	0.98387	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'XIT_INTG 6230.00 230KV'	1	0.893351	0.106649	0.88805	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.95668	0.872255	0.0844254	0.88972	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.957466	0.87909	0.0783766	0.88972	0.9	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.95559	0.882665	0.0729249	0.88972	0.9	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.955598	0.874507	0.0810914	0.88972	0.9	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.954336	0.873399	0.080937	0.88972	0.9	1.05	0.13443	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'XIT_INTG 6230.00 230KV'	0.989832	0.882469	0.107363	0.88805	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.955954	0.873539	0.0824149	0.88972	0.9	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'XIT_INTG 6230.00 230KV'	1	0.894915	0.105085	0.88805	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956485	0.87518	0.0813048	0.88972	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956603	0.880581	0.0760213	0.88972	0.9	1.05	0.20697	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956603	0.880581	0.0760213	0.88972	0.9	1.05	0.20697	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.955246	0.877048	0.0781975	0.88972	0.9	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956451	0.881292	0.0751584	0.88972	0.9	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.95642	0.868502	0.0879176	0.88972	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.955979	0.884514	0.0714648	0.88972	0.9	1.05	0.03768	'GEN542962 2-IATAN UNIT #2'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.955566	0.884194	0.071372	0.88972	0.9	1.05	0.06902	'GEN640011 2-GERALD GENTLEMAN STATION UNIT 2'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.955134	0.874023	0.0811113	0.88972	0.9	1.05	0.13443	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_123	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'XIT_INTG 6230.00 230KV'	1	0.880141	0.119859	0.88805	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.955292	0.873096	0.0821962	0.88972	0.9	1.05	0.11609	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_123	'XIT_INTG 6230.00 230KV'	0.990057	0.895858	0.0941991	0.88805	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.954897	0.874378	0.0805191	0.88972	0.9	1.05	0.11609	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956892	0.881898	0.0749943	0.88972	0.9	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956884	0.88173	0.0751533	0.88972	0.9	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956778	0.881682	0.0750968	0.88972	0.9	1.05	0.13049	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.07934	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_123	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.07934	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'AMARILLO SOUTH INTERCHANGE 230KV'	1.003064	0.931739	0.0713246	0.93174	0.95	1.05	0.05864	System Intact
FDNS	06ALL	0	21L	G16_124	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.06317	System Intact
FDNS	06ALL	0	21L	G16_124	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.06317	System Intact
FDNS	06ALL	0	21WP	G16_124	'BADGER 345.00 345KV'	1.010793	0.94727	0.0635229	0.94727	0.95	1.05	0.07482	System Intact
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'BORDER 7345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.15773	System Intact
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.15773	System Intact
FDNS	06ALL	0	21SP	G16_124	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.18992	System Intact
FDNS	06ALL	0	21SP	G16_124	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.18992	System Intact
FDNS	06ALL	0	21WP	G16_124	'BORDER 7345.00 345KV'	0.973293	0.916543	0.0567498	0.91654	0.95	1.05	0.18131	System Intact
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.969786	0.86839	0.101396	0.87749	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'BORDER 7345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'BOWERS INTERCHANGE 69KV'	1.034897	1.071238	0.0363411	1.03926	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'BOWERS TAP 69KV'	1.024455	1.061259	0.0368036	1.02888	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.07496	System Intact
FDNS	06ALL	0	21SP	G16_124	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.07496	System Intact
FDNS	06ALL	0	21WP	G16_124	'BUSHLAND INTERCHANGE 230KV'	1.008722	0.932744	0.0759785	0.93274	0.95	1.05	0.07248	System Intact
FDNS	06ALL	0	21L	G16_124	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.10134	System Intact
FDNS	06ALL	0	21L	G16_124	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.10134	System Intact
FDNS	06ALL	0	21WP	G16_124	'BVRCNTY7 345.00 345KV'	1.006863	0.937326	0.0695368	0.93733	0.95	1.05	0.12063	System Intact
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.96842	0.890848	0.0775719	0.90812	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.969176	0.897907	0.0712687	0.90812	0.9	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.96764	0.893942	0.0736985	0.90812	0.9	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.966475	0.893047	0.0734277	0.90812	0.9	1.05	0.13443	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.967829	0.892317	0.075512	0.90812	0.9	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968271	0.893636	0.0746344	0.90812	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968393	0.899	0.0693936	0.90812	0.9	1.05	0.20697	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968393	0.899	0.0693936	0.90812	0.9	1.05	0.20697	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.967369	0.896732	0.0706367	0.90812	0.9	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968277	0.899867	0.0684105	0.90812	0.9	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968249	0.887365	0.0808841	0.90812	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.967124	0.893546	0.0735774	0.90812	0.9	1.05	0.13443	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.967324	0.892308	0.0750153	0.90812	0.9	1.05	0.11609	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.967003	0.893665	0.0733384	0.90812	0.9	1.05	0.11609	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.07934	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_124	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.07934	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'CHISHOLM6 230.00 230KV'	1.000288	0.948971	0.0513175	0.94897	0.95	1.05	0.08108	System Intact
FDNSLock	06ALL	2	18SP	G16_124	'COBRN_CREEK3115.00 115KV'	1.025514	1.086157	0.060643	1.03258	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'CRAWFISH_DR 345.00 345KV'	0.986024	0.894426	0.0915983	0.90018	0.9	1.05	0.05636	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'CRAWFISH_DR 345.00 345KV'	0.986513	0.894866	0.0916473	0.90018	0.9	1.05	0.05636	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.979218	0.874262	0.104955	0.88811	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'CRAWFISH_DR 345.00 345KV'	0.986551	0.900183	0.0863677	0.90018	0.95	1.05	0.05636	System Intact
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.980699	0.87833	0.102369	0.88811	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.980371	0.869743	0.110627	0.88811	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'CRAWFISH_DR 345.00 345KV'	0.980371	0.869743	0.110627	0.88811	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.06793	System Intact
FDNS	06ALL	0	21SP	G16_124	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.06793	System Intact
FDNS	06ALL	0	21WP	G16_124	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.991095	0.92469	0.0664043	0.92469	0.95	1.05	0.0657	System Intact
FDNSLock	06ALL	2	18SP	G16_124	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.92	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980069	0.876909	0.10316	0.89054	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.981517	0.880906	0.100611	0.89054	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.98118	0.872152	0.109028	0.89054	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'ELK_CT1 345.00 345KV'	0.98118	0.872152	0.109028	0.89054	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.039841	1.070043	0.0302023	1.07636	0.9	1.05	0.06425	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.07522	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.07522	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.07522	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.07522	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.034487	1.055636	0.0211487	1.07636	0.9	1.05	0.03816	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.039885	1.066267	0.0263828	1.07636	0.9	1.05	0.26749	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.044674	1.071002	0.0263281	1.07636	0.9	1.05	0.72308	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03816	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03816	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.07195	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.07195	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.07195	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.07195	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.04416	1.070633	0.0264726	1.07636	0.9	1.05	0.08746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04407	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04407	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03866	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03866	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04444	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_124	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04444	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_124	'EVA REGULATOR 69KV'	1	0.891847	0.108153	0.90099	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.996877	0.891114	0.105763	0.90694	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.999407	0.898982	0.100426	0.90694	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.999305	0.895412	0.103893	0.90694	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'FREWHELCOL17345.00 345KV'	0.999305	0.895412	0.103893	0.90694	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G06-44 115.00 115KV'	1.001334	0.896008	0.105326	0.91176	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.999401	0.898948	0.100453	0.90691	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14 345.00 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14-1 115.00 115KV'	0.99973	0.894228	0.105502	0.91001	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14-1 115.00 115KV'	1.002161	0.898514	0.103647	0.91001	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G10-14-1 115.00 115KV'	1.002161	0.898514	0.103647	0.91001	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'G1149G1504 345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.969786	0.86839	0.101396	0.87749	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'G1149G1504 345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'G16-045-SUB1345.00 345KV'	1	1.264422	0.264422	1.25588	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'G16-045-SUB2345.00 345KV'	1	1.2884	0.2884	1.27969	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'GEN-2016-057345.00 345KV'	1	1.276997	0.276997	1.26837	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'GEN-2016-057345.00 345KV'	1	1.324082	0.324082	1.31513	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'GRAPEVINE INTERCHANGE 230KV'	0.987686	0.8893	0.098386	0.89793	0.9	1.05	0.06677	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'GRAPEVINE INTERCHANGE 230KV'	0.987627	0.890547	0.0970804	0.89794	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'GRAPEVINE INTERCHANGE 230KV'	0.987721	0.890309	0.097412	0.89793	0.9	1.05	0.06677	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'GRAPEVINE INTERCHANGE 230KV'	0.987658	0.887568	0.10009	0.89793	0.9	1.05	0.06677	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'GRAPEVINE INTERCHANGE 230KV'	0.986245	0.893592	0.0926524	0.89794	0.9	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_124	'GRAPEVINE INTERCHANGE 230KV'	0.986045	0.890344	0.0957015	0.89794	0.9	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_124	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'GRAPEVINE INTERCHANGE 230KV'	1	0.889226	0.110774	0.89794	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'GRAPEVINE INTERCHANGE 230KV'	0.987716	0.887688	0.100028	0.89793	0.9	1.05	0.06677	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'GRAPEVINE INTERCHANGE 230KV'	0.98772	0.890597	0.0971233	0.89793	0.9	1.05	0.06677	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.05264	System Intact
FDNS	06ALL	0	21L	G16_124	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.05264	System Intact
FDNS	06ALL	0	21WP	G16_124	'GRAPEVINE INTERCHANGE 230KV'	0.987715	0.897935	0.0897798	0.89794	0.95	1.05	0.06677	System Intact
FDNSLock	06ALL	2	18SP	G16_124	'Graves Sub 115KV'	1.02286	1.073505	0.0506449	1.02368	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'GRAVES SUB 69KV'	1.019223	1.076678	0.0574549	1.02628	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'GREENBELT REC-KELLERVILLE 69KV'	1.022793	1.059641	0.0368478	1.02722	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'GREENBELT REC-WHEELER 69KV'	1.018432	1.075929	0.0574974	1.02549	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.9924	0.899665	0.092734	0.906	0.9	1.05	0.06669	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.991623	0.897496	0.0941273	0.906	0.9	1.05	0.06669	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'HITCHLAND INTERCHANGE 230KV'	1	0.898257	0.101743	0.906	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.899397	0.0930243	0.906	0.9	1.05	0.06669	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.989009	0.876968	0.112041	0.89231	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05348	System Intact
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05348	System Intact
FDNS	06ALL	0	21SP	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07074	System Intact
FDNS	06ALL	0	21SP	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07074	System Intact
FDNS	06ALL	0	21WP	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.906	0.0864221	0.906	0.95	1.05	0.06669	System Intact
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.883832	0.107056	0.89231	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.990774	0.879976	0.110798	0.89231	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'HITCHLAND INTERCHANGE 230KV'	0.990774	0.879976	0.110798	0.89231	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.20226	System Intact
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.20226	System Intact
FDNS	06ALL	0	21WP	G16_124	'Hitchland Interchange 345KV'	1.002146	0.922169	0.0799766	0.92217	0.95	1.05	0.23533	System Intact
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.999401	0.898948	0.100453	0.90691	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'Hitchland Interchange 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'HOLLIS 138KV'	0.976893	0.911222	0.0656702	0.9869	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'HOLLIS TAP 138KV'	0.976866	0.911279	0.0655869	0.98686	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'HOPI SUB 115KV'	1.023085	1.051076	0.0279913	1.04506	0.9	1.05	0.10716	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'HOPI SUB 115KV'	1.023085	1.051076	0.0279913	1.04506	0.9	1.05	0.10716	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.9	1.05	0.08417	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.92	1.05	0.08417	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.9	1.05	0.08417	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.92	1.05	0.08417	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'KINGSMILL INTERCHANGE 69KV'	1.029913	1.052916	0.0230038	1.03322	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'LAWTON EASTSIDE 345KV'	0.988849	0.913434	0.0754145	0.97952	0.92	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'LAWTON EASTSIDE 345KV'	0.989403	0.914396	0.0750066	0.97531	0.92	1.05	0.08746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_124	'LAWTON EASTSIDE 345KV'	0.989431	0.918226	0.0712057	0.97728	0.92	1.05	0.0877	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.18026	System Intact
FDNS	06ALL	0	21L	G16_124	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.18026	System Intact
FDNSLock	06ALL	2	18SP	G16_124	'LYONS SUB 69KV'	1.014907	1.052071	0.0371634	1.01937	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'LYONS TAP 69KV'	1.02031	1.057277	0.0369672	1.02475	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'MAGIC CITY 69KV'	1.015956	1.073698	0.057742	1.02305	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'MCCULLOUGH SUB 69KV'	1.029286	1.058355	0.0290693	1.03294	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.9	1.05	0.10584	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.92	1.05	0.10584	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.9	1.05	0.10584	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.92	1.05	0.10584	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	1	0.89583	0.10417	0.88973	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.984361	0.88184	0.10252	0.88973	0.9	1.05	0.05884	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	1	0.899523	0.100477	0.88973	0.9	1.05	0.05884	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.984429	0.883546	0.100883	0.88973	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	1	0.897376	0.102624	0.88973	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.9844	0.882784	0.101617	0.88973	0.9	1.05	0.05884	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.984013	0.880494	0.10352	0.88973	0.9	1.05	0.05884	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18SP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	1	0.880735	0.119265	0.88973	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.881206	0.103188	0.88973	0.9	1.05	0.05884	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.984782	0.898919	0.0858634	0.88973	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.978672	0.891548	0.0871245	0.90209	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.958425	0.898039	0.0603866	0.922	0.9	1.05	0.06227	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.969552	0.897217	0.0723359	0.922	0.9	1.05	0.06227	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.981309	0.89794	0.0833692	0.922	0.9	1.05	0.06227	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.984412	0.88307	0.101342	0.88973	0.9	1.05	0.05884	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	1	0.895688	0.104312	0.88973	0.9	1.05	0.05884	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.04867	System Intact
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.04867	System Intact

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.06227	System Intact
FDNS	06ALL	0	21SP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.06227	System Intact
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.889732	0.0946618	0.88973	0.95	1.05	0.05884	System Intact
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.89435	0.0845755	0.90209	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.978815	0.891285	0.0875295	0.90209	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.978815	0.891285	0.0875295	0.90209	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'MOORE COUNTY INTERCHANGE 230KV'	0.984493	0.896089	0.0884044	0.88973	0.9	1.05	0.05884	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_124	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.07054	System Intact
FDNS	06ALL	0	21SP	G16_124	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.07054	System Intact
FDNS	06ALL	0	21WP	G16_124	'NEWHART 230 230KV'	1.00408	0.937379	0.0667012	0.93738	0.95	1.05	0.06826	System Intact
FDNSLock	06ALL	2	18SP	G16_124	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.92	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'NICHOLS STATION 230KV'	1.007788	0.942771	0.0650167	0.94277	0.95	1.05	0.03563	System Intact
FDNS	06ALL	0	21L	G16_124	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 3115.00 115KV'	0.998723	0.894825	0.103898	0.9106	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 3115.00 115KV'	1.000589	0.899108	0.101481	0.9106	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 3115.00 115KV'	1.000589	0.899108	0.101481	0.9106	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.996893	0.891121	0.105771	0.90695	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.99943	0.898988	0.100441	0.90695	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.999327	0.895419	0.103908	0.90695	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'NOVUS1 7345.00 345KV'	0.999327	0.895419	0.103908	0.90695	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.9	1.05	0.10584	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.92	1.05	0.10584	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.9	1.05	0.10584	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.92	1.05	0.10584	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_124	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OCHILTREE 230KV'	1	0.899887	0.100113	0.89422	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_124	'OCHILTREE 230KV'	0.981367	0.889038	0.0923285	0.89422	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OCHILTREE 230KV'	1	0.886255	0.113745	0.89422	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.988305	0.873763	0.114542	0.88854	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.989866	0.879984	0.109882	0.88854	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.989752	0.87607	0.113682	0.88854	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OCHILTREE 230KV'	0.989752	0.87607	0.113682	0.88854	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.06071	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.06071	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.92	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.9	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.92	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.9865	0.909737	0.0767626	0.92105	0.92	1.05	0.046	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.92	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.9	1.05	0.12063	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.92	1.05	0.12063	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1.002267	0.907976	0.0942918	0.9613	0.92	1.05	0.1386	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.9	1.05	0.12088	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.92	1.05	0.12088	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1.002849	0.912851	0.0899981	0.96336	0.92	1.05	0.13878	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.9	1.05	0.13635	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.92	1.05	0.13635	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.92	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.92	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08487	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08487	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.07809	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.07809	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.98716	0.904949	0.0822111	0.92105	0.92	1.05	0.09997	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.9	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.92	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.9873	0.910261	0.077039	0.92105	0.92	1.05	0.04198	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.9	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.92	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.9	1.05	0.09285	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.92	1.05	0.09285	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.9	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.92	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.9	1.05	0.04832	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.92	1.05	0.04832	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.988	0.912526	0.0754739	0.90693	0.92	1.05	0.13443	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.9	1.05	0.03602	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.92	1.05	0.03602	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.92	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	1.004016	0.909447	0.0945695	0.95817	0.92	1.05	0.11626	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	1.003876	0.916102	0.0877743	0.96159	0.92	1.05	0.11645	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.984929	0.914829	0.0701002	0.90693	0.92	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.92	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.98211	0.898251	0.0838595	0.90693	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.98211	0.898251	0.0838595	0.90693	0.92	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.07118	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.07118	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04198	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04198	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.9	1.05	0.05568	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.92	1.05	0.05568	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.9	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.92	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.9	1.05	0.03602	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.92	1.05	0.03602	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.9	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.92	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.9	1.05	0.09285	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.92	1.05	0.09285	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.9	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.92	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.9	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.92	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.9	1.05	0.05013	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.92	1.05	0.05013	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.983732	0.912099	0.0716323	0.92105	0.92	1.05	0.0687	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.9	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.92	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.92	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	1.007264	0.914312	0.0929524	0.95817	0.92	1.05	0.08746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	1.007696	0.919528	0.0881681	0.96159	0.92	1.05	0.0877	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.9	1.05	0.11183	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.92	1.05	0.11183	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.9	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.92	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.9	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.92	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.9	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.92	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.9	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.92	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.985011	0.912126	0.0728853	0.90693	0.92	1.05	0.10852	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.9	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.92	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.06798	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.06798	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.15207	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.15207	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.15065	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.15065	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.92	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.92	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.9	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.92	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.9	1.05	0.07382	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.92	1.05	0.07382	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.9	1.05	0.07377	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.92	1.05	0.07377	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06413	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06413	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.06902	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.06902	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.988977	0.915872	0.0731052	0.92105	0.92	1.05	0.06427	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.92	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.9	1.05	0.06803	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.92	1.05	0.06803	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.06031	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.06031	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.0634	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.0634	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.819847	0.180153	0.82662	0.9	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1	0.819847	0.180153	0.82662	0.92	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06515	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06515	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.9	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.92	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	1.009382	0.908955	0.100427	0.95817	0.92	1.05	0.25279	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_124	'OKLAUN HVDC7345.00 345KV'	1.005603	0.919735	0.0858682	0.9613	0.92	1.05	0.26749	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.9	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.92	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.9	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.92	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.99092	0.919373	0.0715467	0.90693	0.92	1.05	0.11609	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.9	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.92	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.9	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.92	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.9	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.92	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977901	0.810213	0.167688	0.82236	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.977901	0.810213	0.167688	0.82236	0.92	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUN HVDC7345.00 345KV'	0.982034	0.901547	0.0804876	0.90693	0.92	1.05	0.13049	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.92	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.92	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.06071	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.06071	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.92	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.9	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.92	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.986311	0.909563	0.076748	0.92088	0.92	1.05	0.046	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.92	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.9	1.05	0.12063	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.92	1.05	0.12063	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_124	'OKLAUNION 345KV'	1.002076	0.907802	0.0942737	0.96111	0.92	1.05	0.1386	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_124	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.9	1.05	0.12088	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_124	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.92	1.05	0.12088	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G16_124	'OKLAUNION 345KV'	1.002657	0.912676	0.0899807	0.96317	0.92	1.05	0.13878	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.9	1.05	0.13635	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.92	1.05	0.13635	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.991068	0.915633	0.0754344	0.92088	0.92	1.05	0.22033	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.991068	0.915611	0.0754568	0.92088	0.92	1.05	0.22033	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.9	1.05	0.21939	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.92	1.05	0.21939	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.9	1.05	0.21939	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.92	1.05	0.21939	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.92	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.92	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08487	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08487	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.07809	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.07809	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.9	1.05	0.21939	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.92	1.05	0.21939	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.9	1.05	0.21939	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.92	1.05	0.21939	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.986971	0.904776	0.0821953	0.92088	0.92	1.05	0.09997	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.9	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.92	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.9	1.05	0.20927	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.92	1.05	0.20927	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.987111	0.910087	0.0770242	0.92088	0.92	1.05	0.04198	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.9	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.92	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.9	1.05	0.09285	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.92	1.05	0.09285	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.9	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.92	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.9	1.05	0.04832	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.92	1.05	0.04832	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.987811	0.912352	0.0754595	0.90675	0.92	1.05	0.13443	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.9	1.05	0.20927	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.92	1.05	0.20927	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.9	1.05	0.03602	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.92	1.05	0.03602	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.92	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUNION 345KV'	1.003842	0.909273	0.0945696	0.95798	0.92	1.05	0.11626	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_124	'OKLAUNION 345KV'	1.003703	0.915927	0.0877757	0.9614	0.92	1.05	0.11645	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.984741	0.914654	0.070087	0.90675	0.92	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.92	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981922	0.898079	0.0838434	0.90675	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981922	0.898079	0.0838434	0.90675	0.92	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.9	1.05	0.20927	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.92	1.05	0.20927	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.07118	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.07118	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.9	1.05	0.20927	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.92	1.05	0.20927	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04198	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04198	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.9	1.05	0.05568	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.92	1.05	0.05568	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.9	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.92	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.9	1.05	0.03602	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.92	1.05	0.03602	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.9	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.92	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.9	1.05	0.09285	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.92	1.05	0.09285	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.9	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.92	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.9	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.92	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.9	1.05	0.05013	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.92	1.05	0.05013	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.983544	0.911925	0.0716185	0.92088	0.92	1.05	0.0687	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.9	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.92	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.92	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUNION 345KV'	1.00709	0.914137	0.0929529	0.95798	0.92	1.05	0.08746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_124	'OKLAUNION 345KV'	1.007522	0.919352	0.0881696	0.9614	0.92	1.05	0.0877	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.9	1.05	0.11183	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.92	1.05	0.11183	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.9	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.92	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.9	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.92	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.9	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.92	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.9	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.92	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.984823	0.911952	0.0728713	0.90675	0.92	1.05	0.10852	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.9	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.92	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.06798	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.06798	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.15207	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.15207	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_124	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.15065	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_124	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.15065	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.92	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.9	1.05	0.20927	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.92	1.05	0.20927	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.92	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.9	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.92	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.9	1.05	0.07382	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.92	1.05	0.07382	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.9	1.05	0.07377	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.92	1.05	0.07377	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06413	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06413	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.06902	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.06902	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.988788	0.915697	0.0730912	0.92088	0.92	1.05	0.06427	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.92	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.9	1.05	0.06803	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.92	1.05	0.06803	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.06031	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.06031	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.98162	0.900538	0.081082	0.90675	0.92	1.05	0.21939	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981681	0.900067	0.081614	0.90675	0.92	1.05	0.21939	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.0634	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.0634	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.81969	0.18031	0.82646	0.9	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.81969	0.18031	0.82646	0.92	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.9	1.05	0.2266	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	17WP	G16_124	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.92	1.05	0.2266	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G16_124	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.9	1.05	0.2266	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G16_124	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.92	1.05	0.2266	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.9	1.05	0.22033	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.92	1.05	0.22033	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.9	1.05	0.22033	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.92	1.05	0.22033	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G16_124	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.9	1.05	0.21907	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G16_124	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.92	1.05	0.21907	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G16_124	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.9	1.05	0.21907	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G16_124	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.92	1.05	0.21907	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.9	1.05	0.21939	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.92	1.05	0.21939	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	18G	G16_124	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.15472	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	18G	G16_124	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.15472	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_124	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.9	1.05	0.1258	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_124	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.92	1.05	0.1258	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21SP	G16_124	'OKLAUNION 345KV'	0.952946	0.916513	0.0364331	0.98214	0.92	1.05	0.15248	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21SP	G16_124	'OKLAUNION 345KV'	0.952947	0.916475	0.0364715	0.98214	0.92	1.05	0.15248	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G16_124	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.9	1.05	0.14628	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G16_124	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.92	1.05	0.14628	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G16_124	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.9	1.05	0.14628	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G16_124	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.92	1.05	0.14628	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	18G	G16_124	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.15491	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	18G	G16_124	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.15491	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G16_124	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.9	1.05	0.126	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G16_124	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.92	1.05	0.126	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21SP	G16_124	'OKLAUNION 345KV'	0.952924	0.917157	0.0357668	0.98247	0.92	1.05	0.15261	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21SP	G16_124	'OKLAUNION 345KV'	0.952923	0.917124	0.0357989	0.98247	0.92	1.05	0.15261	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	G16_124	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.9	1.05	0.14644	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	G16_124	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.92	1.05	0.14644	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G16_124	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.9	1.05	0.14644	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G16_124	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.92	1.05	0.14644	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06515	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06515	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.9	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.92	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_124	'OKLAUNION 345KV'	1.009207	0.908781	0.100426	0.95798	0.92	1.05	0.25279	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_124	'OKLAUNION 345KV'	1.005411	0.919559	0.0858518	0.96111	0.92	1.05	0.26749	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.9	1.05	0.20927	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.92	1.05	0.20927	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.9	1.05	0.20927	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.92	1.05	0.20927	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.9	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.92	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.9	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.92	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.99073	0.919197	0.071533	0.90675	0.92	1.05	0.11609	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.22033	System Intact
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.22033	System Intact
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.18026	System Intact
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.18026	System Intact
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.21939	System Intact
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.21939	System Intact
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979428	0.826461	0.152967	0.82646	0.95	1.05	0.20927	System Intact
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.9	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.92	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.9	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.92	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.9	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.92	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977732	0.810058	0.167674	0.8222	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977732	0.810058	0.167674	0.8222	0.92	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.981847	0.901375	0.0804722	0.90675	0.92	1.05	0.13049	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.92	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.92	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.9	1.05	0.20927	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.92	1.05	0.20927	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980323	0.90143	0.0788932	0.90675	0.92	1.05	0.21939	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_124	'OKLAUNION 345KV'	0.980313	0.901231	0.0790821	0.90675	0.92	1.05	0.21939	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.06227	System Intact
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.06227	System Intact
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 230KV'	0.999107	0.920025	0.0790821	0.92003	0.95	1.05	0.06014	System Intact
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	1	0.888072	0.111928	0.88217	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.978173	0.899788	0.0783843	0.91598	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.976707	0.895245	0.0814623	0.91598	0.9	1.05	0.27861	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.976783	0.894322	0.0824615	0.91598	0.9	1.05	0.27861	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.98763	0.874154	0.113476	0.88217	0.9	1.05	0.27206	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	1	0.891394	0.108606	0.88217	0.9	1.05	0.27206	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.98772	0.87598	0.11174	0.88217	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.976402	0.896065	0.0803373	0.91598	0.9	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	1	0.890089	0.109911	0.88217	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.977074	0.897986	0.0790876	0.91598	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.987702	0.875053	0.112649	0.88217	0.9	1.05	0.27206	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.98753	0.873304	0.114226	0.88217	0.9	1.05	0.27206	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.978239	0.895983	0.0822566	0.91598	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.04663	'Hitchland Interchange (H T880155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.04663	'Hitchland Interchange (H T880155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	1	0.873377	0.126623	0.88217	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.873885	0.113808	0.88217	0.9	1.05	0.27206	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.987989	0.890881	0.0971085	0.88217	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983824	0.887861	0.0959628	0.8984	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	1	0.876923	0.123077	0.88217	0.9	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.977311	0.890959	0.0863523	0.91598	0.9	1.05	0.27861	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.987718	0.875335	0.112383	0.88217	0.9	1.05	0.27206	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	1	0.887851	0.112149	0.88217	0.9	1.05	0.27206	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.2612	System Intact
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.2612	System Intact
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.27861	System Intact
FDNS	06ALL	0	21SP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.27861	System Intact
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.882171	0.105522	0.88217	0.95	1.05	0.27206	System Intact
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.98399	0.888512	0.0954778	0.8984	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983851	0.887131	0.0967205	0.8984	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.983851	0.887131	0.0967205	0.8984	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'POTTER COUNTY INTERCHANGE 345KV'	0.98811	0.888961	0.0991488	0.88217	0.9	1.05	0.27206	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNSLock	06ALL	2	18SP	G16_124	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.92	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'ROBERTS COUNTY TAP 69KV'	1.019254	1.056662	0.0374085	1.02375	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 115KV'	0.989482	0.91903	0.0704518	0.94503	0.92	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 115KV'	0.991221	0.912006	0.0792154	0.91779	0.92	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 115KV'	0.991273	0.912663	0.07861	0.91779	0.92	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 115KV'	0.989353	0.912742	0.076611	0.91779	0.92	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 115KV'	0.989352	0.912741	0.0766112	0.91779	0.92	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 115KV'	0.988367	0.910602	0.077765	0.91779	0.92	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 115KV'	1	0.911987	0.0880125	0.91779	0.92	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 115KV'	0.975588	0.910931	0.0646564	0.95684	0.92	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 115KV'	0.974107	0.911925	0.062182	0.95684	0.92	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 69KV'	1	0.915479	0.0845211	0.90842	0.92	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.95464	0.915326	0.0393143	0.9309	0.92	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.972962	0.912699	0.060263	0.9309	0.92	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.964962	0.908186	0.0567757	0.9309	0.92	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'SHAMROCK 69KV'	0.967834	0.914151	0.053683	0.96076	0.92	1.05	0.09304	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.971364	0.905931	0.0654329	0.9309	0.92	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 69KV'	0.9702	0.902855	0.0673447	0.90842	0.92	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.954453	0.918686	0.0357667	0.9309	0.92	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 69KV'	1	0.916379	0.0836212	0.90842	0.92	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.97221	0.912887	0.0593234	0.9309	0.92	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.955257	0.910689	0.0445682	0.9309	0.92	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 69KV'	0.9685	0.903615	0.0648848	0.90842	0.92	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 69KV'	0.9685	0.903615	0.0648851	0.90842	0.92	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 69KV'	0.967541	0.901347	0.0661935	0.90842	0.92	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_124	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 69KV'	1	0.902947	0.0970531	0.90842	0.92	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SHAMROCK 69KV'	0.970354	0.916817	0.0535374	0.90842	0.92	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 69KV'	0.955735	0.917017	0.0387179	0.94142	0.92	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNSLock	06ALL	0	18G	G16_124	'SHAMROCK 69KV'	0.972404	0.918616	0.0537882	0.94142	0.92	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.9	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.92	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.9	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.92	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_124	'SHAMROCK 69KV'	0.961202	0.917197	0.0440053	0.94142	0.92	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SPNSPUR_WND7345.00 345KV'	1	0.895314	0.104686	0.88941	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SPNSPUR_WND7345.00 345KV'	0.992226	0.883218	0.109008	0.88941	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SPNSPUR_WND7345.00 345KV'	1	0.897333	0.102667	0.88941	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SPNSPUR_WND7345.00 345KV'	1	0.880613	0.119387	0.88941	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SPNSPUR_WND7345.00 345KV'	0.992454	0.898125	0.0943297	0.88941	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.988603	0.896797	0.091805	0.90737	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_124	'SPNSPUR_WND7345.00 345KV'	1	0.88416	0.11584	0.88941	0.9	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.988744	0.897451	0.0912929	0.90737	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.988626	0.896065	0.0925612	0.90737	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'SPNSPUR_WND7345.00 345KV'	0.988626	0.896065	0.0925612	0.90737	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'STATELINE INTERCHANGE 115KV'	1.021039	1.075547	0.0545086	1.02261	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'STATELINE INTERCHANGE 230KV'	1.021124	1.069772	0.048648	1.01641	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05397	System Intact
FDNS	06ALL	0	21L	G16_124	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05397	System Intact
FDNS	06ALL	0	21WP	G16_124	'STATELINE INTERCHANGE 230KV'	0.999138	0.921867	0.0772707	0.92187	0.95	1.05	0.06866	System Intact
FDNSLock	06ALL	2	18SP	G16_124	'STLN-DEMARC6 230KV'	1.020763	1.077596	0.0568331	1.01717	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'STLN-DEMARC6 230KV'	1.003486	0.940168	0.0633178	0.94017	0.95	1.05	0.08108	System Intact
FDNSLock	06ALL	2	18SP	G16_124	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_124	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.92	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'SWEETWATER 230KV'	1.005199	0.94769	0.0575091	0.94769	0.95	1.05	0.08108	System Intact
FDNS	06ALL	0	21SP	G16_124	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.03761	System Intact
FDNS	06ALL	0	21SP	G16_124	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.03761	System Intact
FDNS	06ALL	0	21L	G16_124	'TOLK STATION 345KV'	0.988694	0.932858	0.0558364	0.93286	0.95	1.05	0.77674	System Intact
FDNS	06ALL	0	21L	G16_124	'TOLK STATION 345KV'	0.988694	0.932858	0.0558364	0.93286	0.95	1.05	0.77674	System Intact
FDNS	06ALL	0	21WP	G16_124	'TOLK STATION 345KV'	0.998751	0.931691	0.0670596	0.93169	0.95	1.05	0.79	System Intact
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 230KV'	0.998884	0.916269	0.0826147	0.93709	0.925	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 230KV'	0.998884	0.916269	0.0826147	0.93709	0.925	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.98007	0.87691	0.10316	0.89054	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.981517	0.880907	0.10061	0.89054	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.981181	0.872153	0.109028	0.89054	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'TUCO INTERCHANGE 345KV'	0.981181	0.872153	0.109028	0.89054	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_124	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09982	System Intact
FDNS	06ALL	0	21L	G16_124	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09982	System Intact
FDNS	06ALL	0	21WP	G16_124	'WALKEMEYER 7345.00 345KV'	1.007796	0.942456	0.0653399	0.94246	0.95	1.05	0.12173	System Intact
FDNS	06ALL	0	18G	G16_124	'WELLINGTON 138KV'	0.974511	0.90498	0.0695304	0.98387	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'XIT_INTG 6230.00 230KV'	1	0.893351	0.106649	0.88805	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.95668	0.872255	0.0844254	0.88972	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.957466	0.87909	0.0783766	0.88972	0.9	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.95559	0.882665	0.0729249	0.88972	0.9	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.955598	0.874507	0.0810914	0.88972	0.9	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.954336	0.873399	0.080937	0.88972	0.9	1.05	0.13443	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'XIT_INTG 6230.00 230KV'	0.989832	0.882469	0.107363	0.88805	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.955954	0.873539	0.0824149	0.88972	0.9	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'XIT_INTG 6230.00 230KV'	1	0.894915	0.105085	0.88805	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956485	0.87518	0.0813048	0.88972	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956603	0.880581	0.0760213	0.88972	0.9	1.05	0.20697	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956603	0.880581	0.0760213	0.88972	0.9	1.05	0.20697	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.955246	0.877048	0.0781975	0.88972	0.9	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956451	0.881292	0.0751584	0.88972	0.9	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.95642	0.868502	0.0879176	0.88972	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.955979	0.884514	0.0714648	0.88972	0.9	1.05	0.03768	'GEN542962 2-IATAN UNIT #2'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.955566	0.884194	0.071372	0.88972	0.9	1.05	0.06902	'GEN640011 2-GERALD GENTLEMAN STATION UNIT 2'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.955134	0.874023	0.0811113	0.88972	0.9	1.05	0.13443	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_124	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'XIT_INTG 6230.00 230KV'	1	0.880141	0.119859	0.88805	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.955292	0.873096	0.0821962	0.88972	0.9	1.05	0.11609	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_124	'XIT_INTG 6230.00 230KV'	0.990057	0.895858	0.0941991	0.88805	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.954897	0.874378	0.0805191	0.88972	0.9	1.05	0.11609	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956892	0.881898	0.0749943	0.88972	0.9	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956884	0.88173	0.0751533	0.88972	0.9	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956778	0.881682	0.0750968	0.88972	0.9	1.05	0.13049	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.07934	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_124	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.07934	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'AMARILLO SOUTH INTERCHANGE 230KV'	1.003064	0.931739	0.0713246	0.93174	0.95	1.05	0.05864	System Intact
FDNS	06ALL	0	21L	G16_125	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.06317	System Intact
FDNS	06ALL	0	21L	G16_125	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.06317	System Intact
FDNS	06ALL	0	21WP	G16_125	'BADGER 345.00 345KV'	1.010793	0.94727	0.0635229	0.94727	0.95	1.05	0.07482	System Intact
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'BORDER 7345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.15773	System Intact
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.15773	System Intact
FDNS	06ALL	0	21SP	G16_125	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.18992	System Intact
FDNS	06ALL	0	21SP	G16_125	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.18992	System Intact
FDNS	06ALL	0	21WP	G16_125	'BORDER 7345.00 345KV'	0.973293	0.916543	0.0567498	0.91654	0.95	1.05	0.18131	System Intact
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.969786	0.86839	0.101396	0.87749	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'BORDER 7345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'BOWERS INTERCHANGE 69KV'	1.034897	1.071238	0.0363411	1.03926	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'BOWERS TAP 69KV'	1.024455	1.061259	0.0368036	1.02888	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.07496	System Intact
FDNS	06ALL	0	21SP	G16_125	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.07496	System Intact
FDNS	06ALL	0	21WP	G16_125	'BUSHLAND INTERCHANGE 230KV'	1.008722	0.932744	0.0759785	0.93274	0.95	1.05	0.07248	System Intact
FDNS	06ALL	0	21L	G16_125	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.10134	System Intact
FDNS	06ALL	0	21L	G16_125	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.10134	System Intact
FDNS	06ALL	0	21WP	G16_125	'BVRCNTY7 345.00 345KV'	1.006863	0.937326	0.0695368	0.93733	0.95	1.05	0.12063	System Intact
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.96842	0.890848	0.0775719	0.90812	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.969176	0.897907	0.0712687	0.90812	0.9	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.96764	0.893942	0.0736985	0.90812	0.9	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.966475	0.893047	0.0734277	0.90812	0.9	1.05	0.13443	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.967829	0.892317	0.075512	0.90812	0.9	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968271	0.893636	0.0746344	0.90812	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968393	0.899	0.0693936	0.90812	0.9	1.05	0.20697	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968393	0.899	0.0693936	0.90812	0.9	1.05	0.20697	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.967369	0.896732	0.0706367	0.90812	0.9	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968277	0.899867	0.0684105	0.90812	0.9	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968249	0.887365	0.0808841	0.90812	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.967124	0.893546	0.0735774	0.90812	0.9	1.05	0.13443	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.967324	0.892308	0.0750153	0.90812	0.9	1.05	0.11609	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.967003	0.893665	0.0733384	0.90812	0.9	1.05	0.11609	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.07934	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_125	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.07934	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'CHISHOLM6 230.00 230KV'	1.000288	0.948971	0.0513175	0.94897	0.95	1.05	0.08108	System Intact
FDNSLock	06ALL	2	18SP	G16_125	'COBRN_CREEK3115.00 115KV'	1.025514	1.086157	0.060643	1.03258	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'CRAWFISH_DR 345.00 345KV'	0.986024	0.894426	0.0915983	0.90018	0.9	1.05	0.05636	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'CRAWFISH_DR 345.00 345KV'	0.986513	0.894866	0.0916473	0.90018	0.9	1.05	0.05636	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.979218	0.874262	0.104955	0.88811	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'CRAWFISH_DR 345.00 345KV'	0.986551	0.900183	0.0863677	0.90018	0.95	1.05	0.05636	System Intact
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.980699	0.87833	0.102369	0.88811	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.980371	0.869743	0.110627	0.88811	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'CRAWFISH_DR 345.00 345KV'	0.980371	0.869743	0.110627	0.88811	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.06793	System Intact
FDNS	06ALL	0	21SP	G16_125	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.06793	System Intact
FDNS	06ALL	0	21WP	G16_125	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.991095	0.92469	0.0664043	0.92469	0.95	1.05	0.0657	System Intact
FDNSLock	06ALL	2	18SP	G16_125	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.92	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980069	0.876909	0.10316	0.89054	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.981517	0.880906	0.100611	0.89054	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.98118	0.872152	0.109028	0.89054	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'ELK_CT1 345.00 345KV'	0.98118	0.872152	0.109028	0.89054	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.039841	1.070043	0.0302023	1.07636	0.9	1.05	0.06425	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.07522	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.07522	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.07522	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.07522	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.034487	1.055636	0.0211487	1.07636	0.9	1.05	0.03816	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.039885	1.066267	0.0263828	1.07636	0.9	1.05	0.26749	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.044674	1.071002	0.0263281	1.07636	0.9	1.05	0.72308	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03816	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03816	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.07195	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.07195	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.07195	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.07195	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.04416	1.070633	0.0264726	1.07636	0.9	1.05	0.08746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04407	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04407	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03866	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03866	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04444	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_125	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04444	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_125	'EVA REGULATOR 69KV'	1	0.891847	0.108153	0.90099	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.996877	0.891114	0.105763	0.90694	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.999407	0.898982	0.100426	0.90694	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.999305	0.895412	0.103893	0.90694	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'FREWHELCOL17345.00 345KV'	0.999305	0.895412	0.103893	0.90694	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G06-44 115.00 115KV'	1.001334	0.896008	0.105326	0.91176	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.999401	0.898948	0.100453	0.90691	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14 345.00 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14-1 115.00 115KV'	0.99973	0.894228	0.105502	0.91001	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14-1 115.00 115KV'	1.002161	0.898514	0.103647	0.91001	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G10-14-1 115.00 115KV'	1.002161	0.898514	0.103647	0.91001	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'G1149G1504 345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.969786	0.86839	0.101396	0.87749	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'G1149G1504 345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'G16-045-SUB1345.00 345KV'	1	1.264422	0.264422	1.25588	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'G16-045-SUB2345.00 345KV'	1	1.2884	0.2884	1.27969	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'GEN-2016-057345.00 345KV'	1	1.276997	0.276997	1.26837	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'GEN-2016-057345.00 345KV'	1	1.324082	0.324082	1.31513	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'GRAPEVINE INTERCHANGE 230KV'	0.987686	0.8893	0.098386	0.89793	0.9	1.05	0.06677	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'GRAPEVINE INTERCHANGE 230KV'	0.987627	0.890547	0.0970804	0.89794	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'GRAPEVINE INTERCHANGE 230KV'	0.987721	0.890309	0.097412	0.89793	0.9	1.05	0.06677	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'GRAPEVINE INTERCHANGE 230KV'	0.987658	0.887568	0.10009	0.89793	0.9	1.05	0.06677	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'GRAPEVINE INTERCHANGE 230KV'	0.986245	0.893592	0.0926524	0.89794	0.9	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_125	'GRAPEVINE INTERCHANGE 230KV'	0.986045	0.890344	0.0957015	0.89794	0.9	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_125	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'GRAPEVINE INTERCHANGE 230KV'	1	0.889226	0.110774	0.89794	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'GRAPEVINE INTERCHANGE 230KV'	0.987716	0.887688	0.100028	0.89793	0.9	1.05	0.06677	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'GRAPEVINE INTERCHANGE 230KV'	0.98772	0.890597	0.0971233	0.89793	0.9	1.05	0.06677	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.05264	System Intact
FDNS	06ALL	0	21L	G16_125	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.05264	System Intact
FDNS	06ALL	0	21WP	G16_125	'GRAPEVINE INTERCHANGE 230KV'	0.987715	0.897935	0.0897798	0.89794	0.95	1.05	0.06677	System Intact
FDNSLock	06ALL	2	18SP	G16_125	'Graves Sub 115KV'	1.02286	1.073505	0.0506449	1.02368	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'GRAVES SUB 69KV'	1.019223	1.076678	0.0574549	1.02628	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'GREENBELT REC-KELLERVILLE 69KV'	1.022793	1.059641	0.0368478	1.02722	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'GREENBELT REC-WHEELER 69KV'	1.018432	1.075929	0.0574974	1.02549	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.9924	0.899665	0.092734	0.906	0.9	1.05	0.06669	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.991623	0.897496	0.0941273	0.906	0.9	1.05	0.06669	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'HITCHLAND INTERCHANGE 230KV'	1	0.898257	0.101743	0.906	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.899397	0.0930243	0.906	0.9	1.05	0.06669	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.989009	0.876968	0.112041	0.89231	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05348	System Intact
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05348	System Intact
FDNS	06ALL	0	21SP	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07074	System Intact
FDNS	06ALL	0	21SP	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07074	System Intact
FDNS	06ALL	0	21WP	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.906	0.0864221	0.906	0.95	1.05	0.06669	System Intact
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.883832	0.107056	0.89231	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.990774	0.879976	0.110798	0.89231	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'HITCHLAND INTERCHANGE 230KV'	0.990774	0.879976	0.110798	0.89231	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.20226	System Intact
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.20226	System Intact
FDNS	06ALL	0	21WP	G16_125	'Hitchland Interchange 345KV'	1.002146	0.922169	0.0799766	0.92217	0.95	1.05	0.23533	System Intact
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.999401	0.898948	0.100453	0.90691	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'Hitchland Interchange 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'HOLLIS 138KV'	0.976893	0.911222	0.0656702	0.9869	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'HOLLIS TAP 138KV'	0.976866	0.911279	0.0655869	0.98686	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'HOPI SUB 115KV'	1.023085	1.051076	0.0279913	1.04506	0.9	1.05	0.10716	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'HOPI SUB 115KV'	1.023085	1.051076	0.0279913	1.04506	0.9	1.05	0.10716	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.9	1.05	0.08417	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.92	1.05	0.08417	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.9	1.05	0.08417	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.92	1.05	0.08417	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'KINGSMILL INTERCHANGE 69KV'	1.029913	1.052916	0.0230038	1.03322	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'LAWTON EASTSIDE 345KV'	0.988849	0.913434	0.0754145	0.97952	0.92	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'LAWTON EASTSIDE 345KV'	0.989403	0.914396	0.0750066	0.97531	0.92	1.05	0.08746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_125	'LAWTON EASTSIDE 345KV'	0.989431	0.918226	0.0712057	0.97728	0.92	1.05	0.0877	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.18026	System Intact
FDNS	06ALL	0	21L	G16_125	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.18026	System Intact
FDNSLock	06ALL	2	18SP	G16_125	'LYONS SUB 69KV'	1.014907	1.052071	0.0371634	1.01937	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'LYONS TAP 69KV'	1.02031	1.057277	0.0369672	1.02475	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'MAGIC CITY 69KV'	1.015956	1.073698	0.057742	1.02305	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'MCCULLOUGH SUB 69KV'	1.029286	1.058355	0.0290693	1.03294	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.9	1.05	0.10584	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.92	1.05	0.10584	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.9	1.05	0.10584	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.92	1.05	0.10584	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	1	0.89583	0.10417	0.88973	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.984361	0.88184	0.10252	0.88973	0.9	1.05	0.05884	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	1	0.899523	0.100477	0.88973	0.9	1.05	0.05884	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.984429	0.883546	0.100883	0.88973	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	1	0.897376	0.102624	0.88973	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.9844	0.882784	0.101617	0.88973	0.9	1.05	0.05884	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.984013	0.880494	0.10352	0.88973	0.9	1.05	0.05884	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18SP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	1	0.880735	0.119265	0.88973	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.881206	0.103188	0.88973	0.9	1.05	0.05884	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.984782	0.898919	0.0858634	0.88973	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.978672	0.891548	0.0871245	0.90209	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.958425	0.898039	0.0603866	0.922	0.9	1.05	0.06227	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.969552	0.897217	0.0723359	0.922	0.9	1.05	0.06227	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.981309	0.89794	0.0833692	0.922	0.9	1.05	0.06227	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.984412	0.88307	0.101342	0.88973	0.9	1.05	0.05884	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	1	0.895688	0.104312	0.88973	0.9	1.05	0.05884	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.04867	System Intact
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.04867	System Intact

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.06227	System Intact
FDNS	06ALL	0	21SP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.06227	System Intact
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.889732	0.0946618	0.88973	0.95	1.05	0.05884	System Intact
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.89435	0.0845755	0.90209	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.978815	0.891285	0.0875295	0.90209	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.978815	0.891285	0.0875295	0.90209	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'MOORE COUNTY INTERCHANGE 230KV'	0.984493	0.896089	0.0884044	0.88973	0.9	1.05	0.05884	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_125	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.07054	System Intact
FDNS	06ALL	0	21SP	G16_125	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.07054	System Intact
FDNS	06ALL	0	21WP	G16_125	'NEWHART 230 230KV'	1.00408	0.937379	0.0667012	0.93738	0.95	1.05	0.06826	System Intact
FDNSLock	06ALL	2	18SP	G16_125	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.92	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'NICHOLS STATION 230KV'	1.007788	0.942771	0.0650167	0.94277	0.95	1.05	0.03563	System Intact
FDNS	06ALL	0	21L	G16_125	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 3115.00 115KV'	0.998723	0.894825	0.103898	0.9106	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 3115.00 115KV'	1.000589	0.899108	0.101481	0.9106	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 3115.00 115KV'	1.000589	0.899108	0.101481	0.9106	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.996893	0.891121	0.105771	0.90695	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.99943	0.898988	0.100441	0.90695	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.999327	0.895419	0.103908	0.90695	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'NOVUS1 7345.00 345KV'	0.999327	0.895419	0.103908	0.90695	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.9	1.05	0.10584	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.92	1.05	0.10584	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.9	1.05	0.10584	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.92	1.05	0.10584	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_125	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.03962	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OCHILTREE 230KV'	1	0.899887	0.100113	0.89422	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_125	'OCHILTREE 230KV'	0.981367	0.889038	0.0923285	0.89422	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OCHILTREE 230KV'	1	0.886255	0.113745	0.89422	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.988305	0.873763	0.114542	0.88854	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.989866	0.879984	0.109882	0.88854	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.989752	0.87607	0.113682	0.88854	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OCHILTREE 230KV'	0.989752	0.87607	0.113682	0.88854	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.06071	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.06071	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.92	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.9	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.92	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.9865	0.909737	0.0767626	0.92105	0.92	1.05	0.046	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.92	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.9	1.05	0.12063	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.92	1.05	0.12063	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1.002267	0.907976	0.0942918	0.9613	0.92	1.05	0.1386	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.9	1.05	0.12088	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.92	1.05	0.12088	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1.002849	0.912851	0.0899981	0.96336	0.92	1.05	0.13878	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.9	1.05	0.13635	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.92	1.05	0.13635	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.92	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.92	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08487	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08487	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.07809	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.07809	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.98716	0.904949	0.0822111	0.92105	0.92	1.05	0.09997	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.9	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.92	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.9873	0.910261	0.077039	0.92105	0.92	1.05	0.04198	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.9	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.92	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.9	1.05	0.09285	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.92	1.05	0.09285	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.9	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.92	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.9	1.05	0.04832	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.92	1.05	0.04832	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.988	0.912526	0.0754739	0.90693	0.92	1.05	0.13443	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.9	1.05	0.03602	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.92	1.05	0.03602	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.92	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	1.004016	0.909447	0.0945695	0.95817	0.92	1.05	0.11626	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	1.003876	0.916102	0.0877743	0.96159	0.92	1.05	0.11645	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.984929	0.914829	0.0701002	0.90693	0.92	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.92	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.98211	0.898251	0.0838595	0.90693	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.98211	0.898251	0.0838595	0.90693	0.92	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.07118	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.07118	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04198	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04198	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.9	1.05	0.05568	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.92	1.05	0.05568	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.9	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.92	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.9	1.05	0.03602	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.92	1.05	0.03602	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.9	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.92	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.9	1.05	0.09285	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.92	1.05	0.09285	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.9	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.92	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.9	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.92	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.9	1.05	0.05013	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.92	1.05	0.05013	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.983732	0.912099	0.0716323	0.92105	0.92	1.05	0.0687	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.9	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.92	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.92	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	1.007264	0.914312	0.0929524	0.95817	0.92	1.05	0.08746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	1.007696	0.919528	0.0881681	0.96159	0.92	1.05	0.0877	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.9	1.05	0.11183	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.92	1.05	0.11183	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.9	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.92	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.9	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.92	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.9	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.92	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.9	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.92	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.985011	0.912126	0.0728853	0.90693	0.92	1.05	0.10852	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.9	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.92	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.06798	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.06798	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.15207	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.15207	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.15065	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.15065	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.92	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.92	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.9	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.92	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.9	1.05	0.07382	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.92	1.05	0.07382	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.9	1.05	0.07377	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.92	1.05	0.07377	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06413	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06413	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.06902	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.06902	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.988977	0.915872	0.0731052	0.92105	0.92	1.05	0.06427	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.92	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.9	1.05	0.06803	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.92	1.05	0.06803	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.06031	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.06031	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.0634	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.0634	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.819847	0.180153	0.82662	0.9	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1	0.819847	0.180153	0.82662	0.92	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06515	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06515	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.9	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.92	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	1.009382	0.908955	0.100427	0.95817	0.92	1.05	0.25279	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_125	'OKLAUN HVDC7345.00 345KV'	1.005603	0.919735	0.0858682	0.9613	0.92	1.05	0.26749	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.9	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.92	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.9	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.92	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.99092	0.919373	0.0715467	0.90693	0.92	1.05	0.11609	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.9	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.92	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.9	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.92	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.9	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.92	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977901	0.810213	0.167688	0.82236	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.977901	0.810213	0.167688	0.82236	0.92	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUN HVDC7345.00 345KV'	0.982034	0.901547	0.0804876	0.90693	0.92	1.05	0.13049	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.92	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.92	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.06071	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.06071	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.92	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.9	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.92	1.05	0.0521	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.06317	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.0789	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06253	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.986311	0.909563	0.076748	0.92088	0.92	1.05	0.046	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.92	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.9	1.05	0.12063	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.92	1.05	0.12063	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_125	'OKLAUNION 345KV'	1.002076	0.907802	0.0942737	0.96111	0.92	1.05	0.1386	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_125	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.9	1.05	0.12088	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_125	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.92	1.05	0.12088	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G16_125	'OKLAUNION 345KV'	1.002657	0.912676	0.0899807	0.96317	0.92	1.05	0.13878	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.9	1.05	0.13635	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.92	1.05	0.13635	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.991068	0.915633	0.0754344	0.92088	0.92	1.05	0.22033	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.991068	0.915611	0.0754568	0.92088	0.92	1.05	0.22033	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.9	1.05	0.21939	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.92	1.05	0.21939	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.9	1.05	0.21939	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.92	1.05	0.21939	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.92	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.9	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.92	1.05	0.03055	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03395	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08487	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08487	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05807	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.07809	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.07809	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.9	1.05	0.21939	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.92	1.05	0.21939	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.9	1.05	0.21939	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.92	1.05	0.21939	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.986971	0.904776	0.0821953	0.92088	0.92	1.05	0.09997	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.9	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.92	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12684	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.9	1.05	0.20927	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.92	1.05	0.20927	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.987111	0.910087	0.0770242	0.92088	0.92	1.05	0.04198	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.9	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.92	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.9	1.05	0.09285	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.92	1.05	0.09285	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.9	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.92	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.9	1.05	0.04832	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.92	1.05	0.04832	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.987811	0.912352	0.0754595	0.90675	0.92	1.05	0.13443	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.9	1.05	0.20927	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.92	1.05	0.20927	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.9	1.05	0.03602	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.92	1.05	0.03602	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.92	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUNION 345KV'	1.003842	0.909273	0.0945696	0.95798	0.92	1.05	0.11626	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_125	'OKLAUNION 345KV'	1.003703	0.915927	0.0877757	0.9614	0.92	1.05	0.11645	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.984741	0.914654	0.070087	0.90675	0.92	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.92	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981922	0.898079	0.0838434	0.90675	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981922	0.898079	0.0838434	0.90675	0.92	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.9	1.05	0.20927	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.92	1.05	0.20927	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.07118	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.07118	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05238	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.9	1.05	0.20927	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.92	1.05	0.20927	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04198	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04198	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11709	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.9	1.05	0.05568	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.92	1.05	0.05568	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.9	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.92	1.05	0.05568	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.9	1.05	0.03602	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.92	1.05	0.03602	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.9	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.92	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.9	1.05	0.09285	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.92	1.05	0.09285	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.9	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.92	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.9	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.92	1.05	0.0521	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.9	1.05	0.05013	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.92	1.05	0.05013	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.983544	0.911925	0.0716185	0.92088	0.92	1.05	0.0687	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.9	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.92	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.92	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUNION 345KV'	1.00709	0.914137	0.0929529	0.95798	0.92	1.05	0.08746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_125	'OKLAUNION 345KV'	1.007522	0.919352	0.0881696	0.9614	0.92	1.05	0.0877	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.9	1.05	0.11183	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.92	1.05	0.11183	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.9	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.92	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.9	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.92	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.9	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.92	1.05	0.11183	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.9	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.92	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.984823	0.911952	0.0728713	0.90675	0.92	1.05	0.10852	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.9	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.92	1.05	0.04607	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.07318	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.06798	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.06798	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.15207	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.15207	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_125	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.15065	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_125	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.15065	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06732	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04243	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.0412	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.92	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.9	1.05	0.20927	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.92	1.05	0.20927	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.92	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.9	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.92	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.9	1.05	0.07382	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.92	1.05	0.07382	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.9	1.05	0.07377	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.92	1.05	0.07377	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06413	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06413	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.06902	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.06902	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.988788	0.915697	0.0730912	0.92088	0.92	1.05	0.06427	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.92	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.9	1.05	0.06803	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.92	1.05	0.06803	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.06031	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.06031	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.98162	0.900538	0.081082	0.90675	0.92	1.05	0.21939	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981681	0.900067	0.081614	0.90675	0.92	1.05	0.21939	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.0634	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.0634	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.81969	0.18031	0.82646	0.9	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.81969	0.18031	0.82646	0.92	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.9	1.05	0.2266	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	17WP	G16_125	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.92	1.05	0.2266	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G16_125	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.9	1.05	0.2266	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G16_125	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.92	1.05	0.2266	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.9	1.05	0.22033	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.92	1.05	0.22033	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.9	1.05	0.22033	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.92	1.05	0.22033	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G16_125	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.9	1.05	0.21907	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G16_125	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.92	1.05	0.21907	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G16_125	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.9	1.05	0.21907	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G16_125	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.92	1.05	0.21907	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.9	1.05	0.21939	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.92	1.05	0.21939	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	18G	G16_125	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.15472	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	18G	G16_125	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.15472	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_125	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.9	1.05	0.1258	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_125	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.92	1.05	0.1258	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21SP	G16_125	'OKLAUNION 345KV'	0.952946	0.916513	0.0364331	0.98214	0.92	1.05	0.15248	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21SP	G16_125	'OKLAUNION 345KV'	0.952947	0.916475	0.0364715	0.98214	0.92	1.05	0.15248	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G16_125	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.9	1.05	0.14628	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G16_125	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.92	1.05	0.14628	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G16_125	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.9	1.05	0.14628	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G16_125	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.92	1.05	0.14628	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	18G	G16_125	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.15491	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	18G	G16_125	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.15491	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G16_125	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.9	1.05	0.126	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G16_125	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.92	1.05	0.126	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21SP	G16_125	'OKLAUNION 345KV'	0.952924	0.917157	0.0357668	0.98247	0.92	1.05	0.15261	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21SP	G16_125	'OKLAUNION 345KV'	0.952923	0.917124	0.0357989	0.98247	0.92	1.05	0.15261	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	G16_125	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.9	1.05	0.14644	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	G16_125	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.92	1.05	0.14644	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G16_125	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.9	1.05	0.14644	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G16_125	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.92	1.05	0.14644	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03495	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06515	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06515	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.06682	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.9	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.92	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_125	'OKLAUNION 345KV'	1.009207	0.908781	0.100426	0.95798	0.92	1.05	0.25279	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_125	'OKLAUNION 345KV'	1.005411	0.919559	0.0858518	0.96111	0.92	1.05	0.26749	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.9	1.05	0.20927	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.92	1.05	0.20927	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.9	1.05	0.20927	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.92	1.05	0.20927	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.9	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.92	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.9	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.92	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.99073	0.919197	0.071533	0.90675	0.92	1.05	0.11609	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.22033	System Intact
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.22033	System Intact
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.18026	System Intact
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.18026	System Intact
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.21939	System Intact
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.21939	System Intact
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979428	0.826461	0.152967	0.82646	0.95	1.05	0.20927	System Intact
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.9	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.92	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.9	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.92	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.9	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.92	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977732	0.810058	0.167674	0.8222	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977732	0.810058	0.167674	0.8222	0.92	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.981847	0.901375	0.0804722	0.90675	0.92	1.05	0.13049	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.92	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.92	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.9	1.05	0.20927	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.92	1.05	0.20927	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980323	0.90143	0.0788932	0.90675	0.92	1.05	0.21939	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_125	'OKLAUNION 345KV'	0.980313	0.901231	0.0790821	0.90675	0.92	1.05	0.21939	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.06227	System Intact
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.06227	System Intact
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 230KV'	0.999107	0.920025	0.0790821	0.92003	0.95	1.05	0.06014	System Intact
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	1	0.888072	0.111928	0.88217	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.978173	0.899788	0.0783843	0.91598	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.976707	0.895245	0.0814623	0.91598	0.9	1.05	0.27861	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.976783	0.894322	0.0824615	0.91598	0.9	1.05	0.27861	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.98763	0.874154	0.113476	0.88217	0.9	1.05	0.27206	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	1	0.891394	0.108606	0.88217	0.9	1.05	0.27206	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.98772	0.87598	0.11174	0.88217	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.976402	0.896065	0.0803373	0.91598	0.9	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	1	0.890089	0.109911	0.88217	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.977074	0.897986	0.0790876	0.91598	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.987702	0.875053	0.112649	0.88217	0.9	1.05	0.27206	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.98753	0.873304	0.114226	0.88217	0.9	1.05	0.27206	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.978239	0.895983	0.0822566	0.91598	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.04663	'Hitchland Interchange (H T880155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.04663	'Hitchland Interchange (H T880155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	1	0.873377	0.126623	0.88217	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.873885	0.113808	0.88217	0.9	1.05	0.27206	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.987989	0.890881	0.0971085	0.88217	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983824	0.887861	0.0959628	0.8984	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	1	0.876923	0.123077	0.88217	0.9	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.977311	0.890959	0.0863523	0.91598	0.9	1.05	0.27861	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.987718	0.875335	0.112383	0.88217	0.9	1.05	0.27206	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	1	0.887851	0.112149	0.88217	0.9	1.05	0.27206	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.2612	System Intact
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.2612	System Intact
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.27861	System Intact
FDNS	06ALL	0	21SP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.27861	System Intact
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.882171	0.105522	0.88217	0.95	1.05	0.27206	System Intact
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.98399	0.888512	0.0954778	0.8984	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983851	0.887131	0.0967205	0.8984	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.983851	0.887131	0.0967205	0.8984	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'POTTER COUNTY INTERCHANGE 345KV'	0.98811	0.888961	0.0991488	0.88217	0.9	1.05	0.27206	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNSLock	06ALL	2	18SP	G16_125	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.92	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'ROBERTS COUNTY TAP 69KV'	1.019254	1.056662	0.0374085	1.02375	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 115KV'	0.989482	0.91903	0.0704518	0.94503	0.92	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 115KV'	0.991221	0.912006	0.0792154	0.91779	0.92	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 115KV'	0.991273	0.912663	0.07861	0.91779	0.92	1.05	0.05605	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 115KV'	0.989353	0.912742	0.076611	0.91779	0.92	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 115KV'	0.989352	0.912741	0.0766112	0.91779	0.92	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 115KV'	0.988367	0.910602	0.077765	0.91779	0.92	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 115KV'	1	0.911987	0.0880125	0.91779	0.92	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 115KV'	0.975588	0.910931	0.0646564	0.95684	0.92	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 115KV'	0.974107	0.911925	0.062182	0.95684	0.92	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 69KV'	1	0.915479	0.0845211	0.90842	0.92	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.07482	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.95464	0.915326	0.0393143	0.9309	0.92	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.972962	0.912699	0.060263	0.9309	0.92	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.964962	0.908186	0.0567757	0.9309	0.92	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'SHAMROCK 69KV'	0.967834	0.914151	0.053683	0.96076	0.92	1.05	0.09304	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.9	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.971364	0.905931	0.0654329	0.9309	0.92	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 69KV'	0.9702	0.902855	0.0673447	0.90842	0.92	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.954453	0.918686	0.0357667	0.9309	0.92	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 69KV'	1	0.916379	0.0836212	0.90842	0.92	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.97221	0.912887	0.0593234	0.9309	0.92	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.955257	0.910689	0.0445682	0.9309	0.92	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 69KV'	0.9685	0.903615	0.0648848	0.90842	0.92	1.05	0.11183	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 69KV'	0.9685	0.903615	0.0648851	0.90842	0.92	1.05	0.11183	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 69KV'	0.967541	0.901347	0.0661935	0.90842	0.92	1.05	0.05013	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07523	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_125	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.25085	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 69KV'	1	0.902947	0.0970531	0.90842	0.92	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SHAMROCK 69KV'	0.970354	0.916817	0.0535374	0.90842	0.92	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 69KV'	0.955735	0.917017	0.0387179	0.94142	0.92	1.05	0.10698	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNSLock	06ALL	0	18G	G16_125	'SHAMROCK 69KV'	0.972404	0.918616	0.0537882	0.94142	0.92	1.05	0.28036	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.9	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.92	1.05	0.08883	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.9	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.92	1.05	0.08883	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_125	'SHAMROCK 69KV'	0.961202	0.917197	0.0440053	0.94142	0.92	1.05	0.10698	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SPNSPUR_WND7345.00 345KV'	1	0.895314	0.104686	0.88941	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SPNSPUR_WND7345.00 345KV'	0.992226	0.883218	0.109008	0.88941	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SPNSPUR_WND7345.00 345KV'	1	0.897333	0.102667	0.88941	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SPNSPUR_WND7345.00 345KV'	1	0.880613	0.119387	0.88941	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SPNSPUR_WND7345.00 345KV'	0.992454	0.898125	0.0943297	0.88941	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.988603	0.896797	0.091805	0.90737	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_125	'SPNSPUR_WND7345.00 345KV'	1	0.88416	0.11584	0.88941	0.9	1.05	0.04175	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.988744	0.897451	0.0912929	0.90737	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.988626	0.896065	0.0925612	0.90737	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'SPNSPUR_WND7345.00 345KV'	0.988626	0.896065	0.0925612	0.90737	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'STATELINE INTERCHANGE 115KV'	1.021039	1.075547	0.0545086	1.02261	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'STATELINE INTERCHANGE 230KV'	1.021124	1.069772	0.048648	1.01641	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05397	System Intact
FDNS	06ALL	0	21L	G16_125	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05397	System Intact
FDNS	06ALL	0	21WP	G16_125	'STATELINE INTERCHANGE 230KV'	0.999138	0.921867	0.0772707	0.92187	0.95	1.05	0.06866	System Intact
FDNSLock	06ALL	2	18SP	G16_125	'STLN-DEMARC6 230KV'	1.020763	1.077596	0.0568331	1.01717	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'STLN-DEMARC6 230KV'	1.003486	0.940168	0.0633178	0.94017	0.95	1.05	0.08108	System Intact
FDNSLock	06ALL	2	18SP	G16_125	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.9	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_125	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.92	1.05	0.04715	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'SWEETWATER 230KV'	1.005199	0.94769	0.0575091	0.94769	0.95	1.05	0.08108	System Intact
FDNS	06ALL	0	21SP	G16_125	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.03761	System Intact
FDNS	06ALL	0	21SP	G16_125	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.03761	System Intact
FDNS	06ALL	0	21L	G16_125	'TOLK STATION 345KV'	0.988694	0.932858	0.0558364	0.93286	0.95	1.05	0.77674	System Intact
FDNS	06ALL	0	21L	G16_125	'TOLK STATION 345KV'	0.988694	0.932858	0.0558364	0.93286	0.95	1.05	0.77674	System Intact
FDNS	06ALL	0	21WP	G16_125	'TOLK STATION 345KV'	0.998751	0.931691	0.0670596	0.93169	0.95	1.05	0.79	System Intact
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 230KV'	0.998884	0.916269	0.0826147	0.93709	0.925	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 230KV'	0.998884	0.916269	0.0826147	0.93709	0.925	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.06317	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.04663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.0536	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.0549	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05829	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.98007	0.87691	0.10316	0.89054	0.9	1.05	0.05667	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.06839	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05412	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.0348	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.981517	0.880907	0.10061	0.89054	0.9	1.05	0.12873	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.981181	0.872153	0.109028	0.89054	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'TUCO INTERCHANGE 345KV'	0.981181	0.872153	0.109028	0.89054	0.9	1.05	0.05333	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_125	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09982	System Intact
FDNS	06ALL	0	21L	G16_125	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09982	System Intact
FDNS	06ALL	0	21WP	G16_125	'WALKEMEYER 7345.00 345KV'	1.007796	0.942456	0.0653399	0.94246	0.95	1.05	0.12173	System Intact
FDNS	06ALL	0	18G	G16_125	'WELLINGTON 138KV'	0.974511	0.90498	0.0695304	0.98387	0.92	1.05	0.08883	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.06025	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'XIT_INTG 6230.00 230KV'	1	0.893351	0.106649	0.88805	0.9	1.05	0.08079	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.95668	0.872255	0.0844254	0.88972	0.9	1.05	0.04093	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.07496	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.0635	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.957466	0.87909	0.0783766	0.88972	0.9	1.05	0.09591	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.12685	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.95559	0.882665	0.0729249	0.88972	0.9	1.05	0.04159	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.955598	0.874507	0.0810914	0.88972	0.9	1.05	0.08567	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.954336	0.873399	0.080937	0.88972	0.9	1.05	0.13443	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'XIT_INTG 6230.00 230KV'	0.989832	0.882469	0.107363	0.88805	0.9	1.05	0.05605	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.955954	0.873539	0.0824149	0.88972	0.9	1.05	0.2904	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'XIT_INTG 6230.00 230KV'	1	0.894915	0.105085	0.88805	0.9	1.05	0.05636	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956485	0.87518	0.0813048	0.88972	0.9	1.05	0.20697	'CROSSROADS 7345.00 - EDDY COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956603	0.880581	0.0760213	0.88972	0.9	1.05	0.20697	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956603	0.880581	0.0760213	0.88972	0.9	1.05	0.20697	'EDDY COUNTY INTERCHANGE (ABB AEM30711) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04159	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10852	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.955246	0.877048	0.0781975	0.88972	0.9	1.05	0.08567	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956451	0.881292	0.0751584	0.88972	0.9	1.05	0.06823	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.95642	0.868502	0.0879176	0.88972	0.9	1.05	0.06823	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.955979	0.884514	0.0714648	0.88972	0.9	1.05	0.03768	'GEN542962 2-IATAN UNIT #2'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.955566	0.884194	0.071372	0.88972	0.9	1.05	0.06902	'GEN640011 2-GERALD GENTLEMAN STATION UNIT 2'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.955134	0.874023	0.0811113	0.88972	0.9	1.05	0.13443	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07074	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_125	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.25218	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12862	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04612	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'XIT_INTG 6230.00 230KV'	1	0.880141	0.119859	0.88805	0.9	1.05	0.04815	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.955292	0.873096	0.0821962	0.88972	0.9	1.05	0.11609	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_125	'XIT_INTG 6230.00 230KV'	0.990057	0.895858	0.0941991	0.88805	0.9	1.05	0.08347	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.07054	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.06227	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.954897	0.874378	0.0805191	0.88972	0.9	1.05	0.11609	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.03761	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956892	0.881898	0.0749943	0.88972	0.9	1.05	0.07372	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956884	0.88173	0.0751533	0.88972	0.9	1.05	0.07387	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956778	0.881682	0.0750968	0.88972	0.9	1.05	0.13049	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.07934	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_125	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.07934	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'AMARILLO SOUTH INTERCHANGE 230KV'	1.003064	0.931739	0.0713246	0.93174	0.95	1.05	0.07432	System Intact
FDNS	06ALL	0	21L	G16_171	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.05536	System Intact
FDNS	06ALL	0	21L	G16_171	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.05536	System Intact
FDNS	06ALL	0	21WP	G16_171	'BADGER 345.00 345KV'	1.010793	0.94727	0.0635229	0.94727	0.95	1.05	0.06701	System Intact
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.05137	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'BORDER 7345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05723	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.05137	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04494	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.17234	System Intact
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.17234	System Intact
FDNS	06ALL	0	21SP	G16_171	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.20453	System Intact
FDNS	06ALL	0	21SP	G16_171	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.20453	System Intact
FDNS	06ALL	0	21WP	G16_171	'BORDER 7345.00 345KV'	0.973293	0.916543	0.0567498	0.91654	0.95	1.05	0.19592	System Intact
FDNS	06ALL	0	21L	G16_171	'BORDER 7345.00 345KV'	0.969786	0.86839	0.101396	0.87749	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNSLock	06ALL	2	18SP	G16_171	'BOWERS INTERCHANGE 69KV'	1.034897	1.071238	0.0363411	1.03926	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'BOWERS TAP 69KV'	1.024455	1.061259	0.0368036	1.02888	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.08786	System Intact
FDNS	06ALL	0	21SP	G16_171	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.08786	System Intact
FDNS	06ALL	0	21WP	G16_171	'BUSHLAND INTERCHANGE 230KV'	1.008722	0.932744	0.0759785	0.93274	0.95	1.05	0.08538	System Intact
FDNS	06ALL	0	21L	G16_171	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.09168	System Intact
FDNS	06ALL	0	21L	G16_171	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.09168	System Intact
FDNS	06ALL	0	21WP	G16_171	'BVRCNTY7 345.00 345KV'	1.006863	0.937326	0.0695368	0.93733	0.95	1.05	0.11097	System Intact
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.96842	0.890848	0.0775719	0.90812	0.9	1.05	0.04399	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.969176	0.897907	0.0712687	0.90812	0.9	1.05	0.09222	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.96764	0.893942	0.0736985	0.90812	0.9	1.05	0.08514	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.966475	0.893047	0.0734277	0.90812	0.9	1.05	0.14027	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.967829	0.892317	0.075512	0.90812	0.9	1.05	0.03003	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.967369	0.896732	0.0706367	0.90812	0.9	1.05	0.08514	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968277	0.899867	0.0684105	0.90812	0.9	1.05	0.07504	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968249	0.887365	0.0808841	0.90812	0.9	1.05	0.07504	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.967124	0.893546	0.0735774	0.90812	0.9	1.05	0.14027	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.967324	0.892308	0.0750153	0.90812	0.9	1.05	0.12002	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.967562	0.894086	0.073476	0.90812	0.9	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.967003	0.893665	0.0733384	0.90812	0.9	1.05	0.12002	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968349	0.891072	0.0772768	0.90812	0.9	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.966592	0.877529	0.0890628	0.90812	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.966592	0.877529	0.0890628	0.90812	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.31389	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.31389	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.04675	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.04675	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.04675	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_171	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.04675	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_171	'CHISHOLM6 230.00 230KV'	1.000288	0.948971	0.0513175	0.94897	0.95	1.05	0.07752	System Intact
FDNSLock	06ALL	2	18SP	G16_171	'COBRN_CREEK3115.00 115KV'	1.025514	1.086157	0.060643	1.03258	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'CRAWFISH_DR 345.00 345KV'	0.986452	0.894945	0.0915074	0.90018	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'CRAWFISH_DR 345.00 345KV'	0.986452	0.894945	0.0915074	0.90018	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.97954	0.868599	0.110941	0.88811	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.97954	0.868599	0.110941	0.88811	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'CRAWFISH_DR 345.00 345KV'	0.986024	0.894426	0.0915983	0.90018	0.9	1.05	0.21339	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.985125	0.893163	0.0919619	0.88811	0.9	1.05	0.18527	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'CRAWFISH_DR 345.00 345KV'	0.986513	0.894866	0.0916473	0.90018	0.9	1.05	0.21339	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.979218	0.874262	0.104955	0.88811	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.980072	0.880551	0.0995212	0.88811	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.9788	0.873777	0.105023	0.88811	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.9807	0.888114	0.0925859	0.88811	0.95	1.05	0.18527	System Intact
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.9807	0.888114	0.0925859	0.88811	0.95	1.05	0.18527	System Intact
FDNS	06ALL	0	21WP	G16_171	'CRAWFISH_DR 345.00 345KV'	0.986551	0.900183	0.0863677	0.90018	0.95	1.05	0.21339	System Intact
FDNS	06ALL	0	21L	G16_171	'CRAWFISH_DR 345.00 345KV'	0.980699	0.87833	0.102369	0.88811	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_171	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.07809	System Intact
FDNS	06ALL	0	21SP	G16_171	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.961158	0.926996	0.0341615	0.927	0.95	1.05	0.07809	System Intact
FDNS	06ALL	0	21WP	G16_171	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.991095	0.92469	0.0664043	0.92469	0.95	1.05	0.07586	System Intact
FDNSLock	06ALL	2	18SP	G16_171	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.92	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'ELK_CT1 345.00 345KV'	0.987103	0.897366	0.0897368	0.90252	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'ELK_CT1 345.00 345KV'	0.987103	0.897366	0.0897368	0.90252	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980336	0.871074	0.109263	0.89054	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980336	0.871074	0.109263	0.89054	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.986993	0.898431	0.0885621	0.89054	0.9	1.05	0.18527	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980069	0.876909	0.10316	0.89054	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980897	0.883062	0.0978355	0.89054	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.979623	0.876328	0.103296	0.89054	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'ELK_CT1 345.00 345KV'	0.981517	0.880906	0.100611	0.89054	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.039841	1.070043	0.0302023	1.07636	0.9	1.05	0.06182	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.06903	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.06903	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.06903	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.06903	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.034487	1.055636	0.0211487	1.07636	0.9	1.05	0.03608	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.039885	1.066267	0.0263828	1.07636	0.9	1.05	0.05252	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.044674	1.071002	0.0263281	1.07636	0.9	1.05	0.17155	'CROSSROADS 7345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03608	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.03608	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.06928	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.06928	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.06928	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.06928	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.04416	1.070633	0.0264726	1.07636	0.9	1.05	0.09812	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04435	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.04435	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03916	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.03916	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04502	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_171	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.04502	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_171	'EVA REGULATOR 69KV'	1	0.891847	0.108153	0.90099	0.9	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.99923	0.893822	0.105408	0.90694	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.99923	0.893822	0.105408	0.90694	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.996877	0.891114	0.105763	0.90694	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.99961	0.898925	0.100686	0.90694	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'FREWHELCOL17345.00 345KV'	0.999407	0.898982	0.100426	0.90694	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_171	'G06-44 115.00 115KV'	1.003684	0.898703	0.104981	0.91176	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G06-44 115.00 115KV'	1.003684	0.898703	0.104981	0.91176	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G06-44 115.00 115KV'	1.001334	0.896008	0.105326	0.91176	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14 345.00 345KV'	0.999401	0.898948	0.100453	0.90691	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_171	'G10-14-1 115.00 115KV'	1.002085	0.896928	0.105157	0.91001	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14-1 115.00 115KV'	1.002085	0.896928	0.105157	0.91001	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14-1 115.00 115KV'	0.99973	0.894228	0.105502	0.91001	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.05137	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.969652	0.862165	0.107487	0.87749	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'G1149G1504 345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05723	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.05137	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04494	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.969206	0.869002	0.100204	0.87749	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.968237	0.862759	0.105478	0.87749	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'G1149G1504 345.00 345KV'	0.969786	0.86839	0.101396	0.87749	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21WP	G16_171	'G16-045-SUB1345.00 345KV'	1	1.264422	0.264422	1.25588	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'G16-045-SUB2345.00 345KV'	1	1.2884	0.2884	1.27969	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'GEN-2016-057345.00 345KV'	1	1.276997	0.276997	1.26837	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'GEN-2016-057345.00 345KV'	1	1.324082	0.324082	1.31513	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.987726	0.889917	0.0978087	0.89794	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.987726	0.889917	0.0978087	0.89794	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.987686	0.8893	0.098386	0.89793	0.9	1.05	0.06387	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.987627	0.890547	0.0970804	0.89794	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.987721	0.890309	0.097412	0.89793	0.9	1.05	0.06387	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.987658	0.887568	0.10009	0.89793	0.9	1.05	0.06387	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.986245	0.893592	0.0926524	0.89794	0.9	1.05	0.11576	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.986045	0.890344	0.0957015	0.89794	0.9	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	1	0.889226	0.110774	0.89794	0.9	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.987716	0.887688	0.100028	0.89793	0.9	1.05	0.06387	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.98772	0.890597	0.0971233	0.89793	0.9	1.05	0.06387	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.04973	System Intact
FDNS	06ALL	0	21L	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.04973	System Intact
FDNS	06ALL	0	21WP	G16_171	'GRAPEVINE INTERCHANGE 230KV'	0.987715	0.897935	0.0897798	0.89794	0.95	1.05	0.06387	System Intact
FDNSLock	06ALL	2	18SP	G16_171	'Graves Sub 115KV'	1.02286	1.073505	0.0506449	1.02368	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'GRAVES SUB 69KV'	1.019223	1.076678	0.0574549	1.02628	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'GREENBELT REC-KELLERVILLE 69KV'	1.022793	1.059641	0.0368478	1.02722	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'GREENBELT REC-WHEELER 69KV'	1.018432	1.075929	0.0574974	1.02549	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.990685	0.878241	0.112444	0.89231	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.990685	0.878241	0.112444	0.89231	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.9924	0.899665	0.092734	0.906	0.9	1.05	0.0664	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.991623	0.897496	0.0941273	0.906	0.9	1.05	0.0664	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'HITCHLAND INTERCHANGE 230KV'	1	0.898257	0.101743	0.906	0.9	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.899397	0.0930243	0.906	0.9	1.05	0.0664	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.989009	0.876968	0.112041	0.89231	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.990952	0.886007	0.104945	0.89231	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.991239	0.884106	0.107134	0.89231	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05318	System Intact
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.05318	System Intact
FDNS	06ALL	0	21SP	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07044	System Intact

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.07044	System Intact
FDNS	06ALL	0	21WP	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.906	0.0864221	0.906	0.95	1.05	0.0664	System Intact
FDNS	06ALL	0	21L	G16_171	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.883832	0.107056	0.89231	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.999223	0.893788	0.105435	0.90691	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.999605	0.898891	0.100714	0.90691	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.17796	System Intact
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.17796	System Intact
FDNS	06ALL	0	21WP	G16_171	'Hitchland Interchange 345KV'	1.002146	0.922169	0.0799766	0.92217	0.95	1.05	0.21102	System Intact
FDNS	06ALL	0	21L	G16_171	'Hitchland Interchange 345KV'	0.999401	0.898948	0.100453	0.90691	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	18G	G16_171	'HOLLIS 138KV'	0.976893	0.911222	0.0656702	0.9869	0.92	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'HOLLIS TAP 138KV'	0.976866	0.911279	0.0655869	0.98686	0.92	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'HOPI SUB 115KV'	1.023085	1.051076	0.0279913	1.04506	0.9	1.05	0.13735	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'HOPI SUB 115KV'	1.023085	1.051076	0.0279913	1.04506	0.9	1.05	0.13735	'HOBBS - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.9	1.05	0.07685	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.92	1.05	0.07685	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.9	1.05	0.07685	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.92	1.05	0.07685	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'KINGSMILL INTERCHANGE 69KV'	1.029913	1.052916	0.0230038	1.03322	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'LAWTON EASTSIDE 345KV'	0.988849	0.913434	0.0754145	0.97952	0.92	1.05	0.07504	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'LAWTON EASTSIDE 345KV'	0.989403	0.914396	0.0750066	0.97531	0.92	1.05	0.09812	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_171	'LAWTON EASTSIDE 345KV'	0.989431	0.918226	0.0712057	0.97728	0.92	1.05	0.09821	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.19378	System Intact
FDNS	06ALL	0	21L	G16_171	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.19378	System Intact
FDNSLock	06ALL	2	18SP	G16_171	'LYONS SUB 69KV'	1.014907	1.052071	0.0371634	1.01937	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'LYONS TAP 69KV'	1.02031	1.057277	0.0369672	1.02475	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'MAGIC CITY 69KV'	1.015956	1.073698	0.057742	1.02305	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'MCCULLOUGH SUB 69KV'	1.029286	1.058355	0.0290693	1.03294	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.9	1.05	0.09852	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.92	1.05	0.09852	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.9	1.05	0.09852	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.92	1.05	0.09852	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.03968	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.03968	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.03968	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.03968	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.984391	0.88238	0.102011	0.88973	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.984391	0.88238	0.102011	0.88973	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	1	0.89583	0.10417	0.88973	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.978709	0.889495	0.0892145	0.90209	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.978709	0.889495	0.0892145	0.90209	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.984361	0.88184	0.10252	0.88973	0.9	1.05	0.05791	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	1	0.899523	0.100477	0.88973	0.9	1.05	0.05791	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.984429	0.883546	0.100883	0.88973	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	1	0.897376	0.102624	0.88973	0.9	1.05	0.21339	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.9844	0.882784	0.101617	0.88973	0.9	1.05	0.05791	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.984013	0.880494	0.10352	0.88973	0.9	1.05	0.05791	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18SP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	1	0.880735	0.119265	0.88973	0.9	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.881206	0.103188	0.88973	0.9	1.05	0.05791	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.984782	0.898919	0.0858634	0.88973	0.9	1.05	0.08239	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.978672	0.891548	0.0871245	0.90209	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.958425	0.898039	0.0603866	0.922	0.9	1.05	0.06134	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.969552	0.897217	0.0723359	0.922	0.9	1.05	0.06134	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.979023	0.896141	0.0828824	0.90209	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.981309	0.89794	0.0833692	0.922	0.9	1.05	0.06134	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.984412	0.88307	0.101342	0.88973	0.9	1.05	0.05791	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	1	0.895688	0.104312	0.88973	0.9	1.05	0.05791	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.979364	0.895636	0.0837274	0.90209	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.04774	System Intact
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.04774	System Intact
FDNS	06ALL	0	21SP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.06134	System Intact
FDNS	06ALL	0	21SP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.06134	System Intact
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.889732	0.0946618	0.88973	0.95	1.05	0.05791	System Intact
FDNS	06ALL	0	21SP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.98052	0.896604	0.083916	0.92201	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.98052	0.896604	0.083916	0.92201	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.89435	0.0845755	0.90209	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21WP	G16_171	'MOORE COUNTY INTERCHANGE 230KV'	0.984493	0.896089	0.0884044	0.88973	0.9	1.05	0.05791	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_171	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'NEWHART 230 230KV'	0.958234	0.899124	0.0591093	0.93684	0.9	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.07321	System Intact
FDNS	06ALL	0	21SP	G16_171	'NEWHART 230 230KV'	0.978922	0.936841	0.0420805	0.93684	0.95	1.05	0.07321	System Intact
FDNS	06ALL	0	21WP	G16_171	'NEWHART 230 230KV'	1.00408	0.937379	0.0667012	0.93738	0.95	1.05	0.07093	System Intact
FDNSLock	06ALL	2	18SP	G16_171	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.92	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 3115.00 115KV'	1.000531	0.897523	0.103008	0.9106	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 3115.00 115KV'	1.000531	0.897523	0.103008	0.9106	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 3115.00 115KV'	0.998723	0.894825	0.103898	0.9106	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.999252	0.893829	0.105423	0.90695	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.999252	0.893829	0.105423	0.90695	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.996893	0.891121	0.105771	0.90695	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.999633	0.898931	0.100702	0.90695	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'NOVUS1 7345.00 345KV'	0.99943	0.898988	0.100441	0.90695	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	2	21SP	G16_171	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.9	1.05	0.09852	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.92	1.05	0.09852	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.9	1.05	0.09852	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.92	1.05	0.09852	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.03968	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.03968	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.03968	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_171	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.03968	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OCHILTREE 230KV'	0.981338	0.888149	0.0931889	0.89422	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OCHILTREE 230KV'	0.981338	0.888149	0.0931889	0.89422	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OCHILTREE 230KV'	1	0.899887	0.100113	0.89422	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.989658	0.874341	0.115317	0.88854	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.989658	0.874341	0.115317	0.88854	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OCHILTREE 230KV'	0.981367	0.889038	0.0923285	0.89422	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_171	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OCHILTREE 230KV'	1	0.886255	0.113745	0.89422	0.9	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.988305	0.873763	0.114542	0.88854	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.989964	0.882228	0.107736	0.88854	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.990281	0.880413	0.109868	0.88854	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OCHILTREE 230KV'	0.989866	0.879984	0.109882	0.88854	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.07594	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.07594	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979563	0.818514	0.161049	0.82662	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979563	0.818514	0.161049	0.82662	0.92	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979563	0.818514	0.161049	0.82662	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979563	0.818514	0.161049	0.82662	0.92	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.92	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.9	1.05	0.05137	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.92	1.05	0.05137	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.05536	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.05536	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.06701	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.06701	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.05536	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.05536	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.06701	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.06701	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.07109	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.07109	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.0612	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.0612	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.0612	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.0612	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.9865	0.909737	0.0767626	0.92105	0.92	1.05	0.04598	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.9	1.05	0.04399	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.92	1.05	0.04399	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.9	1.05	0.13262	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.92	1.05	0.13262	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1.002267	0.907976	0.0942918	0.9613	0.92	1.05	0.15058	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.9	1.05	0.13279	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.92	1.05	0.13279	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1.002849	0.912851	0.0899981	0.96336	0.92	1.05	0.15069	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.9	1.05	0.1401	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.92	1.05	0.1401	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03133	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03133	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03133	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03133	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08418	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08418	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.09963	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.09963	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.08786	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.08786	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.08786	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.08786	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.0764	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.0764	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.0764	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.0764	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.98716	0.904949	0.0822111	0.92105	0.92	1.05	0.09849	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.9	1.05	0.09222	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.92	1.05	0.09222	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12327	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12327	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12327	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.12327	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.92	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97778	0.801845	0.175935	0.82236	0.92	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.9873	0.910261	0.077039	0.92105	0.92	1.05	0.04267	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.9	1.05	0.04163	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.92	1.05	0.04163	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.9	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.92	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.9	1.05	0.09379	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.92	1.05	0.09379	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.9	1.05	0.08514	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.92	1.05	0.08514	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.9	1.05	0.04792	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.92	1.05	0.04792	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.988	0.912526	0.0754739	0.90693	0.92	1.05	0.14027	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.9	1.05	0.03583	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.92	1.05	0.03583	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.92	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	1.004016	0.909447	0.0945695	0.95817	0.92	1.05	0.1251	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	1.003876	0.916102	0.0877743	0.96159	0.92	1.05	0.12526	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.984929	0.914829	0.0701002	0.90693	0.92	1.05	0.03003	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980148	0.828259	0.151889	0.82236	0.9	1.05	0.18527	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980148	0.828259	0.151889	0.82236	0.92	1.05	0.18527	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.9	1.05	0.21339	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.92	1.05	0.21339	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.08995	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989075	0.915082	0.0739931	0.92105	0.92	1.05	0.08995	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04267	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04267	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04163	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04163	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04163	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04163	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11536	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.11536	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11536	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11536	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.11536	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.11536	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.9	1.05	0.05723	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.92	1.05	0.05723	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.9	1.05	0.05723	'G15063_T 345.00 - WOODRING 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.92	1.05	0.05723	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.9	1.05	0.03583	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.92	1.05	0.03583	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.9	1.05	0.05586	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.92	1.05	0.05586	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.9	1.05	0.09379	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.92	1.05	0.09379	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.9	1.05	0.08514	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.92	1.05	0.08514	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.9	1.05	0.05137	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.92	1.05	0.05137	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.9	1.05	0.0513	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.92	1.05	0.0513	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.983732	0.912099	0.0716323	0.92105	0.92	1.05	0.07018	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.9	1.05	0.07504	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.92	1.05	0.07504	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.9	1.05	0.07504	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.92	1.05	0.07504	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	1.007264	0.914312	0.0929524	0.95817	0.92	1.05	0.09812	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	1.007696	0.919528	0.0881681	0.96159	0.92	1.05	0.09821	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.9	1.05	0.11576	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.92	1.05	0.11576	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.9	1.05	0.11576	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.92	1.05	0.11576	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.9	1.05	0.11576	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.92	1.05	0.11576	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.9	1.05	0.11576	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.92	1.05	0.11576	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.9	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.92	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.985011	0.912126	0.0728853	0.90693	0.92	1.05	0.10446	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.9	1.05	0.04494	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.92	1.05	0.04494	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07663	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07663	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.07663	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.07663	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.07078	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.07078	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.23588	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.23588	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.23588	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.23588	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.13547	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.13547	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.13779	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.13779	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06578	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06578	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06578	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06578	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.04287	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.04287	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.04287	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.04287	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.9	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.92	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.981753	0.901686	0.0800664	0.90693	0.92	1.05	0.04893	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.981753	0.901686	0.0800664	0.90693	0.92	1.05	0.04893	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.9	1.05	0.08239	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.92	1.05	0.08239	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.9	1.05	0.10563	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.92	1.05	0.10563	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.9	1.05	0.07162	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.92	1.05	0.07162	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.9	1.05	0.07157	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.92	1.05	0.07157	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06357	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06357	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.0676	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.0676	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.988977	0.915872	0.0731052	0.92105	0.92	1.05	0.06366	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.92	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.9	1.05	0.06649	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.92	1.05	0.06649	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.06214	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.06214	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976871	0.815834	0.161037	0.82236	0.9	1.05	0.12164	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.976871	0.815834	0.161037	0.82236	0.92	1.05	0.12164	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977078	0.810603	0.166475	0.82236	0.92	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.9	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979135	0.894492	0.084643	0.90693	0.92	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.0826	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.0826	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.819847	0.180153	0.82662	0.9	1.05	0.05832	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1	0.819847	0.180153	0.82662	0.92	1.05	0.05832	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06463	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.06463	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.06556	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.06556	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.06556	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.06556	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.9	1.05	0.20781	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.92	1.05	0.20781	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	1.009382	0.908955	0.100427	0.95817	0.92	1.05	0.1799	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_171	'OKLAUN HVDC7345.00 345KV'	1.005603	0.919735	0.0858682	0.9613	0.92	1.05	0.1946	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.9	1.05	0.09048	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.92	1.05	0.09048	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.9	1.05	0.09048	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.92	1.05	0.09048	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.99092	0.919373	0.0715467	0.90693	0.92	1.05	0.12002	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.975713	0.801221	0.174492	0.82236	0.92	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.9	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.97771	0.888777	0.0889333	0.90693	0.92	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.9	1.05	0.10563	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.92	1.05	0.10563	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.9	1.05	0.07153	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.92	1.05	0.07153	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.9	1.05	0.07167	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.92	1.05	0.07167	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.92	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.92	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977901	0.810213	0.167688	0.82236	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_171	'OKLAUN HVDC7345.00 345KV'	0.977901	0.810213	0.167688	0.82236	0.92	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.982034	0.901547	0.0804876	0.90693	0.92	1.05	0.0408	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.04675	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.04675	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.04675	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.04675	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.07594	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.07594	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979376	0.818358	0.161018	0.82646	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979376	0.818358	0.161018	0.82646	0.92	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979376	0.818358	0.161018	0.82646	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979376	0.818358	0.161018	0.82646	0.92	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.92	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.9	1.05	0.05137	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.92	1.05	0.05137	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.05536	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.05536	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.06701	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.06701	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.05536	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.05536	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.06701	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.06701	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.07109	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.07109	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.07109	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.07109	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.0612	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.0612	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.0612	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.0612	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.986311	0.909563	0.076748	0.92088	0.92	1.05	0.04598	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.9	1.05	0.04399	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.92	1.05	0.04399	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.9	1.05	0.13262	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.92	1.05	0.13262	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_171	'OKLAUNION 345KV'	1.002076	0.907802	0.0942737	0.96111	0.92	1.05	0.15058	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_171	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.9	1.05	0.13279	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	3	21L	G16_171	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.92	1.05	0.13279	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G16_171	'OKLAUNION 345KV'	1.002657	0.912676	0.0899807	0.96317	0.92	1.05	0.15069	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.9	1.05	0.1401	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.92	1.05	0.1401	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.991068	0.915633	0.0754344	0.92088	0.92	1.05	0.22359	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.991068	0.915611	0.0754568	0.92088	0.92	1.05	0.22359	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.9	1.05	0.23291	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.92	1.05	0.23291	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.9	1.05	0.23291	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.92	1.05	0.23291	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03133	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03133	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03133	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03133	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08418	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08418	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05675	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.09963	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.09963	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.08786	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.08786	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.08786	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.08786	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.0764	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.0764	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.0764	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.0764	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.9	1.05	0.23291	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.92	1.05	0.23291	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.9	1.05	0.23291	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.92	1.05	0.23291	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.986971	0.904776	0.0821953	0.92088	0.92	1.05	0.09849	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.9	1.05	0.09222	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.92	1.05	0.09222	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12327	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12327	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12327	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.12327	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.92	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977611	0.801691	0.17592	0.8222	0.92	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.9	1.05	0.22279	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.92	1.05	0.22279	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.987111	0.910087	0.0770242	0.92088	0.92	1.05	0.04267	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.9	1.05	0.04163	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.92	1.05	0.04163	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.9	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.92	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.9	1.05	0.09379	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.92	1.05	0.09379	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.9	1.05	0.08514	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.92	1.05	0.08514	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.9	1.05	0.04792	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.92	1.05	0.04792	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.987811	0.912352	0.0754595	0.90675	0.92	1.05	0.14027	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.9	1.05	0.22279	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.92	1.05	0.22279	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.9	1.05	0.03583	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.92	1.05	0.03583	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.92	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUNION 345KV'	1.003842	0.909273	0.0945696	0.95798	0.92	1.05	0.1251	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_171	'OKLAUNION 345KV'	1.003703	0.915927	0.0877757	0.9614	0.92	1.05	0.12526	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.984741	0.914654	0.070087	0.90675	0.92	1.05	0.03003	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.979978	0.8281	0.151878	0.8222	0.9	1.05	0.18527	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.979978	0.8281	0.151878	0.8222	0.92	1.05	0.18527	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.9	1.05	0.21339	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.92	1.05	0.21339	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.9	1.05	0.22279	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.92	1.05	0.22279	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.08995	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.988886	0.914907	0.073979	0.92088	0.92	1.05	0.08995	'DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05298	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.9	1.05	0.22279	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.92	1.05	0.22279	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04267	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04267	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04163	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04163	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04163	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04163	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11536	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.11536	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11536	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11536	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.11536	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.11536	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.9	1.05	0.05723	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.92	1.05	0.05723	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.9	1.05	0.05723	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.92	1.05	0.05723	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.9	1.05	0.03583	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.92	1.05	0.03583	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.9	1.05	0.05586	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.92	1.05	0.05586	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.9	1.05	0.09379	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.92	1.05	0.09379	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.9	1.05	0.08514	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.92	1.05	0.08514	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.9	1.05	0.05137	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.92	1.05	0.05137	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.9	1.05	0.0513	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.92	1.05	0.0513	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.983544	0.911925	0.0716185	0.92088	0.92	1.05	0.07018	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.9	1.05	0.07504	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.92	1.05	0.07504	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.9	1.05	0.07504	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.92	1.05	0.07504	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUNION 345KV'	1.00709	0.914137	0.0929529	0.95798	0.92	1.05	0.09812	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_171	'OKLAUNION 345KV'	1.007522	0.919352	0.0881696	0.9614	0.92	1.05	0.09821	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.9	1.05	0.11576	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.92	1.05	0.11576	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.9	1.05	0.11576	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.92	1.05	0.11576	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.9	1.05	0.11576	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.92	1.05	0.11576	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.9	1.05	0.11576	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.92	1.05	0.11576	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.9	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.92	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.984823	0.911952	0.0728713	0.90675	0.92	1.05	0.10446	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.9	1.05	0.04494	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.92	1.05	0.04494	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.07448	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07663	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07663	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.07663	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.07663	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.07078	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.07078	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.23588	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.23588	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.23588	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.23588	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.13547	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.13547	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_171	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.13779	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_171	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.13779	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06578	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06578	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06578	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06578	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04352	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.04287	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.04287	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.04287	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.04287	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.9	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.92	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981565	0.901514	0.0800511	0.90675	0.92	1.05	0.04893	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981565	0.901514	0.0800511	0.90675	0.92	1.05	0.04893	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.9	1.05	0.22279	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.92	1.05	0.22279	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.9	1.05	0.08239	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.92	1.05	0.08239	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.9	1.05	0.10563	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.92	1.05	0.10563	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.9	1.05	0.07162	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.92	1.05	0.07162	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.9	1.05	0.07157	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.92	1.05	0.07157	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06357	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06357	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.0676	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.0676	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.988788	0.915697	0.0730912	0.92088	0.92	1.05	0.06366	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.92	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.9	1.05	0.06649	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.92	1.05	0.06649	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.06214	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.06214	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.98162	0.900538	0.081082	0.90675	0.92	1.05	0.23291	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981681	0.900067	0.081614	0.90675	0.92	1.05	0.23291	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976702	0.815678	0.161024	0.8222	0.9	1.05	0.12164	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976702	0.815678	0.161024	0.8222	0.92	1.05	0.12164	'NEEDMORE 230.00 - TOLK STATION WEST 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.976909	0.810448	0.166461	0.8222	0.92	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.9	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.978948	0.894321	0.0846269	0.90675	0.92	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.0826	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.0826	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.81969	0.18031	0.82646	0.9	1.05	0.05832	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.81969	0.18031	0.82646	0.92	1.05	0.05832	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.9	1.05	0.22988	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	17WP	G16_171	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.92	1.05	0.22988	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G16_171	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.9	1.05	0.22988	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G16_171	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.92	1.05	0.22988	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.9	1.05	0.22359	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.92	1.05	0.22359	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.9	1.05	0.22359	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.92	1.05	0.22359	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G16_171	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.9	1.05	0.2224	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G16_171	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.92	1.05	0.2224	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G16_171	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.9	1.05	0.2224	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G16_171	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.92	1.05	0.2224	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.9	1.05	0.23291	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.92	1.05	0.23291	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	18G	G16_171	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.16422	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	18G	G16_171	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.16422	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_171	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.9	1.05	0.13535	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_171	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.92	1.05	0.13535	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21SP	G16_171	'OKLAUNION 345KV'	0.952946	0.916513	0.0364331	0.98214	0.92	1.05	0.16203	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21SP	G16_171	'OKLAUNION 345KV'	0.952947	0.916475	0.0364715	0.98214	0.92	1.05	0.16203	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G16_171	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.9	1.05	0.15583	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G16_171	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.92	1.05	0.15583	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G16_171	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.9	1.05	0.15583	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G16_171	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.92	1.05	0.15583	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	18G	G16_171	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.16437	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	18G	G16_171	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.16437	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G16_171	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.9	1.05	0.13553	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G16_171	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.92	1.05	0.13553	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21SP	G16_171	'OKLAUNION 345KV'	0.952924	0.917157	0.0357668	0.98247	0.92	1.05	0.16214	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21SP	G16_171	'OKLAUNION 345KV'	0.952923	0.917124	0.0357989	0.98247	0.92	1.05	0.16214	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	G16_171	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.9	1.05	0.15597	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	G16_171	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.92	1.05	0.15597	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G16_171	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.9	1.05	0.15597	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G16_171	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.92	1.05	0.15597	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03496	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06463	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.06463	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.06556	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.06556	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.06556	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.06556	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.9	1.05	0.20781	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.92	1.05	0.20781	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_171	'OKLAUNION 345KV'	1.009207	0.908781	0.100426	0.95798	0.92	1.05	0.1799	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_171	'OKLAUNION 345KV'	1.005411	0.919559	0.0858518	0.96111	0.92	1.05	0.1946	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.9	1.05	0.22279	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.92	1.05	0.22279	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.9	1.05	0.22279	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.92	1.05	0.22279	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.9	1.05	0.09048	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.92	1.05	0.09048	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.9	1.05	0.09048	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.92	1.05	0.09048	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.99073	0.919197	0.071533	0.90675	0.92	1.05	0.12002	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.975545	0.801068	0.174477	0.8222	0.92	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.9	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.977523	0.888607	0.0889163	0.90675	0.92	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.22359	System Intact
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.22359	System Intact
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.19378	System Intact
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.19378	System Intact
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.23291	System Intact
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.23291	System Intact
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979428	0.826461	0.152967	0.82646	0.95	1.05	0.22279	System Intact
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.9	1.05	0.10563	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.92	1.05	0.10563	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.9	1.05	0.07153	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.92	1.05	0.07153	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.9	1.05	0.07167	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.92	1.05	0.07167	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.92	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.92	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977732	0.810058	0.167674	0.8222	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_171	'OKLAUNION 345KV'	0.977732	0.810058	0.167674	0.8222	0.92	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981847	0.901375	0.0804722	0.90675	0.92	1.05	0.0408	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.9	1.05	0.22279	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.92	1.05	0.22279	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.04675	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.04675	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.04675	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.04675	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980323	0.90143	0.0788932	0.90675	0.92	1.05	0.23291	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_171	'OKLAUNION 345KV'	0.980313	0.901231	0.0790821	0.90675	0.92	1.05	0.23291	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.07807	System Intact
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.07807	System Intact
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 230KV'	0.999107	0.920025	0.0790821	0.92003	0.95	1.05	0.07594	System Intact
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.987669	0.874451	0.113217	0.88217	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.987669	0.874451	0.113217	0.88217	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	1	0.888072	0.111928	0.88217	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.978173	0.899788	0.0783843	0.91598	0.9	1.05	0.04399	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.976707	0.895245	0.0814623	0.91598	0.9	1.05	0.19901	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.976783	0.894322	0.0824615	0.91598	0.9	1.05	0.19901	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983742	0.88479	0.0989521	0.8984	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983742	0.88479	0.0989521	0.8984	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.98763	0.874154	0.113476	0.88217	0.9	1.05	0.19246	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	1	0.891394	0.108606	0.88217	0.9	1.05	0.19246	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.98772	0.87598	0.11174	0.88217	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.976402	0.896065	0.0803373	0.91598	0.9	1.05	0.03003	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	1	0.890089	0.109911	0.88217	0.9	1.05	0.21339	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.987702	0.875053	0.112649	0.88217	0.9	1.05	0.19246	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.98753	0.873304	0.114226	0.88217	0.9	1.05	0.19246	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.978239	0.895983	0.0822566	0.91598	0.9	1.05	0.07504	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.04672	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	1	0.873377	0.126623	0.88217	0.9	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.873885	0.113808	0.88217	0.9	1.05	0.19246	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.987989	0.890881	0.0971085	0.88217	0.9	1.05	0.08239	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983824	0.887861	0.0959628	0.8984	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983657	0.890972	0.092685	0.8984	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	1	0.876923	0.123077	0.88217	0.9	1.05	0.05832	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.977311	0.890959	0.0863523	0.91598	0.9	1.05	0.19901	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.987718	0.875335	0.112383	0.88217	0.9	1.05	0.19246	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	1	0.887851	0.112149	0.88217	0.9	1.05	0.19246	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983793	0.889768	0.0940244	0.8984	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.977111	0.898563	0.0785478	0.91598	0.9	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.1816	System Intact
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.1816	System Intact
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.19901	System Intact
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.19901	System Intact
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.882171	0.105522	0.88217	0.95	1.05	0.19246	System Intact
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.978713	0.886244	0.0924695	0.91598	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.978713	0.886244	0.0924695	0.91598	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.98399	0.888512	0.0954778	0.8984	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21WP	G16_171	'POTTER COUNTY INTERCHANGE 345KV'	0.98811	0.888961	0.0991488	0.88217	0.9	1.05	0.19246	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_171	'RANDALL COUNTY INTERCHANGE 230KV'	1.001004	0.938957	0.0620475	0.93896	0.95	1.05	0.02994	System Intact
FDNSLock	06ALL	2	18SP	G16_171	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.92	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'ROBERTS COUNTY TAP 69KV'	1.019254	1.056662	0.0374085	1.02375	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 115KV'	0.99168	0.912161	0.0795189	0.91779	0.92	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 115KV'	0.99168	0.912161	0.0795189	0.91779	0.92	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.06701	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.06701	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.9	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.92	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 115KV'	0.989482	0.91903	0.0704518	0.94503	0.92	1.05	0.08514	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 115KV'	0.991221	0.912006	0.0792154	0.91779	0.92	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 115KV'	0.991273	0.912663	0.07861	0.91779	0.92	1.05	0.05586	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 115KV'	0.989353	0.912742	0.076611	0.91779	0.92	1.05	0.11576	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 115KV'	0.989352	0.912741	0.0766112	0.91779	0.92	1.05	0.11576	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 115KV'	0.988367	0.910602	0.077765	0.91779	0.92	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07663	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.07663	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 115KV'	1	0.911987	0.0880125	0.91779	0.92	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 115KV'	0.975588	0.910931	0.0646564	0.95684	0.92	1.05	0.09048	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 115KV'	0.974107	0.911925	0.062182	0.95684	0.92	1.05	0.09048	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.9	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.92	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	0.97064	0.903145	0.067495	0.90842	0.92	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	0.97064	0.903145	0.067495	0.90842	0.92	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	1	0.915479	0.0845211	0.90842	0.92	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.06701	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.06701	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.95464	0.915326	0.0393143	0.9309	0.92	1.05	0.04399	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.972962	0.912699	0.060263	0.9309	0.92	1.05	0.09222	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.964962	0.908186	0.0567757	0.9309	0.92	1.05	0.04163	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'SHAMROCK 69KV'	0.967834	0.914151	0.053683	0.96076	0.92	1.05	0.09468	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.9	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.92	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.971364	0.905931	0.0654329	0.9309	0.92	1.05	0.08514	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	0.9702	0.902855	0.0673447	0.90842	0.92	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.954453	0.918686	0.0357667	0.9309	0.92	1.05	0.03003	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	1	0.916379	0.0836212	0.90842	0.92	1.05	0.21339	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04163	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04163	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.97221	0.912887	0.0593234	0.9309	0.92	1.05	0.08514	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.955257	0.910689	0.0445682	0.9309	0.92	1.05	0.07504	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	0.9685	0.903615	0.0648848	0.90842	0.92	1.05	0.11576	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	0.9685	0.903615	0.0648851	0.90842	0.92	1.05	0.11576	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	0.967541	0.901347	0.0661935	0.90842	0.92	1.05	0.0513	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07663	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.07663	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.23588	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_171	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.23588	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	1	0.902947	0.0970531	0.90842	0.92	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SHAMROCK 69KV'	0.970354	0.916817	0.0535374	0.90842	0.92	1.05	0.08239	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 69KV'	0.955735	0.917017	0.0387179	0.94142	0.92	1.05	0.10563	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_171	'SHAMROCK 69KV'	0.972404	0.918616	0.0537882	0.94142	0.92	1.05	0.20781	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.9	1.05	0.09048	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.92	1.05	0.09048	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.9	1.05	0.09048	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.92	1.05	0.09048	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_171	'SHAMROCK 69KV'	0.961202	0.917197	0.0440053	0.94142	0.92	1.05	0.10563	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.954056	0.912626	0.0414308	0.9309	0.92	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SHAMROCK 69KV'	0.954056	0.912626	0.0414308	0.9309	0.92	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.992182	0.881688	0.110494	0.88941	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.992182	0.881688	0.110494	0.88941	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SPNSPUR_WND7345.00 345KV'	1	0.895314	0.104686	0.88941	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.988533	0.893715	0.0948179	0.90737	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.988533	0.893715	0.0948179	0.90737	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.992226	0.883218	0.109008	0.88941	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SPNSPUR_WND7345.00 345KV'	1	0.897333	0.102667	0.88941	0.9	1.05	0.21339	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	G16_171	'SPNSPUR_WND7345.00 345KV'	1	0.880613	0.119387	0.88941	0.9	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.992454	0.898125	0.0943297	0.88941	0.9	1.05	0.08239	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.988603	0.896797	0.091805	0.90737	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.988461	0.89992	0.0885413	0.90737	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_171	'SPNSPUR_WND7345.00 345KV'	1	0.88416	0.11584	0.88941	0.9	1.05	0.05832	'OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.988576	0.898712	0.0898643	0.90737	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.984596	0.892986	0.0916106	0.92273	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SPNSPUR_WND7345.00 345KV'	0.984596	0.892986	0.0916106	0.92273	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'SPNSPUR_WND7345.00 345KV'	0.988744	0.897451	0.0912929	0.90737	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNSLock	06ALL	2	18SP	G16_171	'STATELINE INTERCHANGE 115KV'	1.021039	1.075547	0.0545086	1.02261	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'STATELINE INTERCHANGE 230KV'	1.021124	1.069772	0.048648	1.01641	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05096	System Intact
FDNS	06ALL	0	21L	G16_171	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.05096	System Intact
FDNS	06ALL	0	21WP	G16_171	'STATELINE INTERCHANGE 230KV'	0.999138	0.921867	0.0772707	0.92187	0.95	1.05	0.06566	System Intact
FDNSLock	06ALL	2	18SP	G16_171	'STLN-DEMARC6 230KV'	1.020763	1.077596	0.0568331	1.01717	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'STLN-DEMARC6 230KV'	1.003486	0.940168	0.0633178	0.94017	0.95	1.05	0.07752	System Intact
FDNSLock	06ALL	2	18SP	G16_171	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.9	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_171	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.92	1.05	0.04724	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'SWEETWATER 230KV'	1.005199	0.94769	0.0575091	0.94769	0.95	1.05	0.07752	System Intact
FDNS	06ALL	0	21SP	G16_171	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SWISHER COUNTY INTERCHANGE 230KV'	0.964427	0.899783	0.064644	0.93839	0.9	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.06036	System Intact
FDNS	06ALL	0	21SP	G16_171	'SWISHER COUNTY INTERCHANGE 230KV'	0.981995	0.938393	0.0436023	0.93839	0.95	1.05	0.06036	System Intact
FDNS	06ALL	0	21L	G16_171	'TOLK STATION 345KV'	0.988694	0.932858	0.0558364	0.93286	0.95	1.05	0.13656	System Intact
FDNS	06ALL	0	21L	G16_171	'TOLK STATION 345KV'	0.988694	0.932858	0.0558364	0.93286	0.95	1.05	0.13656	System Intact
FDNS	06ALL	0	21WP	G16_171	'TOLK STATION 345KV'	0.998751	0.931691	0.0670596	0.93169	0.95	1.05	0.14983	System Intact
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 230KV'	0.997739	0.916717	0.0810212	0.93709	0.925	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 230KV'	0.997739	0.916717	0.0810212	0.93709	0.925	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 230KV'	0.997345	0.924012	0.0733337	0.93709	0.925	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'TUCO INTERCHANGE 345KV'	0.987103	0.897367	0.0897366	0.90252	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'TUCO INTERCHANGE 345KV'	0.987103	0.897367	0.0897366	0.90252	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980337	0.871075	0.109263	0.89054	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980337	0.871075	0.109263	0.89054	0.9	1.05	0.05461	'CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'TUCO INTERCHANGE 345KV'	0.986669	0.896838	0.0898305	0.90252	0.9	1.05	0.0423	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.986994	0.898432	0.088562	0.89054	0.9	1.05	0.18527	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_171	'TUCO INTERCHANGE 345KV'	0.987166	0.897297	0.0898693	0.90252	0.9	1.05	0.0423	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.05536	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.04672	'Hitchland Interchange (H T880155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.04672	'Hitchland Interchange (H T880155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.05371	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.05335	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05688	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.98007	0.87691	0.10316	0.89054	0.9	1.05	0.05512	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980898	0.883063	0.0978354	0.89054	0.9	1.05	0.07107	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05287	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.979624	0.876329	0.103296	0.89054	0.9	1.05	0.05755	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'TUCO INTERCHANGE 345KV'	0.987203	0.902522	0.0846803	0.90252	0.95	1.05	0.0423	System Intact
FDNS	06ALL	0	21L	G16_171	'TUCO INTERCHANGE 345KV'	0.981517	0.880907	0.10061	0.89054	0.9	1.05	0.03903	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21L	G16_171	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09501	System Intact
FDNS	06ALL	0	21L	G16_171	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.09501	System Intact
FDNS	06ALL	0	21WP	G16_171	'WALKEMEYER 7345.00 345KV'	1.007796	0.942456	0.0653399	0.94246	0.95	1.05	0.11693	System Intact
FDNS	06ALL	0	18G	G16_171	'WELLINGTON 138KV'	0.974511	0.90498	0.0695304	0.98387	0.92	1.05	0.09048	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.07593	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'XIT_INTG 6230.00 230KV'	0.989799	0.881384	0.108415	0.88805	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'XIT_INTG 6230.00 230KV'	0.989799	0.881384	0.108415	0.88805	0.9	1.05	0.18259	'AMOCO SWITCHING STATION - YOAKUM COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'XIT_INTG 6230.00 230KV'	1	0.893351	0.106649	0.88805	0.9	1.05	0.08063	'ARCADIA - NORTHWEST 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.95668	0.872255	0.0844254	0.88972	0.9	1.05	0.04399	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.08786	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.08786	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.0764	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.0764	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.957466	0.87909	0.0783766	0.88972	0.9	1.05	0.09222	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.1172	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.95559	0.882665	0.0729249	0.88972	0.9	1.05	0.04163	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.955598	0.874507	0.0810914	0.88972	0.9	1.05	0.08514	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.954336	0.873399	0.080937	0.88972	0.9	1.05	0.14027	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'XIT_INTG 6230.00 230KV'	0.989832	0.882469	0.107363	0.88805	0.9	1.05	0.05586	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.955954	0.873539	0.0824149	0.88972	0.9	1.05	0.03003	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'XIT_INTG 6230.00 230KV'	1	0.894915	0.105085	0.88805	0.9	1.05	0.21339	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04163	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04163	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.10446	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.955246	0.877048	0.0781975	0.88972	0.9	1.05	0.08514	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956451	0.881292	0.0751584	0.88972	0.9	1.05	0.07504	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.95642	0.868502	0.0879176	0.88972	0.9	1.05	0.07504	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.955979	0.884514	0.0714648	0.88972	0.9	1.05	0.0374	'GEN542962 2-IATAN UNIT #2'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.955566	0.884194	0.071372	0.88972	0.9	1.05	0.0676	'GEN640011 2-GERALD GENTLEMAN STATION UNIT 2'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.955134	0.874023	0.0811113	0.88972	0.9	1.05	0.14027	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.07044	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_171	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.23724	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.12381	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04778	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'XIT_INTG 6230.00 230KV'	1	0.880141	0.119859	0.88805	0.9	1.05	0.05009	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956663	0.88375	0.0729131	0.88972	0.9	1.05	0.04893	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956663	0.88375	0.0729131	0.88972	0.9	1.05	0.04893	'JONES STATION - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.955292	0.873096	0.0821962	0.88972	0.9	1.05	0.12002	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_171	'XIT_INTG 6230.00 230KV'	0.990057	0.895858	0.0941991	0.88805	0.9	1.05	0.08239	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.955999	0.876003	0.079996	0.88972	0.9	1.05	0.07321	'NEWHART 230 - PLANT X STATION 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.07807	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.954897	0.874378	0.0805191	0.88972	0.9	1.05	0.12002	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956859	0.873174	0.0836843	0.88972	0.9	1.05	0.06036	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956892	0.881898	0.0749943	0.88972	0.9	1.05	0.07153	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956884	0.88173	0.0751533	0.88972	0.9	1.05	0.07167	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.954792	0.858261	0.0965316	0.88972	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.954792	0.858261	0.0965316	0.88972	0.9	1.05	0.07618	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956778	0.881682	0.0750968	0.88972	0.9	1.05	0.0408	'TOLK STATION EAST - TOLK STATION TAP 230KV CKT @1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.31389	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.31389	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.04675	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.04675	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.04675	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_171	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.04675	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_172	'AMARILLO SOUTH INTERCHANGE 230KV'	1.003064	0.931739	0.0713246	0.93174	0.95	1.05	0.12093	System Intact
FDNS	06ALL	0	21L	G16_172	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.07129	System Intact
FDNS	06ALL	0	21L	G16_172	'BADGER 345.00 345KV'	1.012323	0.93762	0.0747028	0.93762	0.95	1.05	0.07129	System Intact
FDNS	06ALL	0	21WP	G16_172	'BADGER 345.00 345KV'	1.010793	0.94727	0.0635229	0.94727	0.95	1.05	0.08294	System Intact
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.0528	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03318	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03318	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_172	'BORDER 7345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05432	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.0528	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04716	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.969365	0.871988	0.0973775	0.87749	0.9	1.05	0.04661	'HAPPY INTERCHANGE - PALO DURO SUB 115KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.96924	0.871001	0.0982388	0.87749	0.9	1.05	0.04661	'HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.969149	0.869639	0.09951	0.87749	0.9	1.05	0.04661	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.969336	0.871734	0.0976025	0.87749	0.9	1.05	0.04661	'PALO DURO SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.13203	System Intact
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.969786	0.877493	0.0922931	0.87749	0.95	1.05	0.13203	System Intact
FDNS	06ALL	0	21SP	G16_172	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.16421	System Intact
FDNS	06ALL	0	21SP	G16_172	'BORDER 7345.00 345KV'	0.968822	0.934634	0.0341884	0.93463	0.95	1.05	0.16421	System Intact
FDNS	06ALL	0	21WP	G16_172	'BORDER 7345.00 345KV'	0.973293	0.916543	0.0567498	0.91654	0.95	1.05	0.1556	System Intact
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'BORDER 7345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'BOWERS INTERCHANGE 69KV'	1.034897	1.071238	0.0363411	1.03926	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'BOWERS TAP 69KV'	1.024455	1.061259	0.0368036	1.02888	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.08273	System Intact
FDNS	06ALL	0	21SP	G16_172	'BUSHLAND INTERCHANGE 230KV'	0.991085	0.945425	0.0456606	0.94542	0.95	1.05	0.08273	System Intact
FDNS	06ALL	0	21WP	G16_172	'BUSHLAND INTERCHANGE 230KV'	1.008722	0.932744	0.0759785	0.93274	0.95	1.05	0.08025	System Intact
FDNS	06ALL	0	21L	G16_172	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.11127	System Intact
FDNS	06ALL	0	21L	G16_172	'BVRCNTY7 345.00 345KV'	1.00635	0.925004	0.0813457	0.925	0.95	1.05	0.11127	System Intact
FDNS	06ALL	0	21WP	G16_172	'BVRCNTY7 345.00 345KV'	1.006863	0.937326	0.0695368	0.93733	0.95	1.05	0.13056	System Intact
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.967825	0.886665	0.0811592	0.90812	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.96842	0.890848	0.0775719	0.90812	0.9	1.05	0.03109	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.969176	0.897907	0.0712687	0.90812	0.9	1.05	0.09952	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968434	0.899768	0.0686662	0.90812	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.96764	0.893942	0.0736985	0.90812	0.9	1.05	0.09381	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.966475	0.893047	0.0734277	0.90812	0.9	1.05	0.13028	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.967829	0.892317	0.075512	0.90812	0.9	1.05	0.05903	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.969169	0.896061	0.0731075	0.90812	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968749	0.897596	0.0711526	0.90812	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.967369	0.896732	0.0706367	0.90812	0.9	1.05	0.09381	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968277	0.899867	0.0684105	0.90812	0.9	1.05	0.05508	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968249	0.887365	0.0808841	0.90812	0.9	1.05	0.05508	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.967124	0.893546	0.0735774	0.90812	0.9	1.05	0.13028	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968463	0.898047	0.0704159	0.90812	0.9	1.05	0.04741	'HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968618	0.889175	0.0794432	0.90812	0.9	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.971452	0.890901	0.0805511	0.96611	0.9	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968561	0.879077	0.0894831	0.90812	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968447	0.896784	0.0716631	0.90812	0.9	1.05	0.04741	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.967324	0.892308	0.0750153	0.90812	0.9	1.05	0.11101	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.969377	0.883503	0.0858741	0.90812	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.992492	0.899338	0.0931541	0.91011	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.967413	0.899567	0.0678461	0.90812	0.9	1.05	0.03193	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.967413	0.899567	0.0678461	0.90812	0.9	1.05	0.03193	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.967003	0.893665	0.0733384	0.90812	0.9	1.05	0.11101	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.966592	0.877529	0.0890628	0.90812	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.966592	0.877529	0.0890628	0.90812	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.03164	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968399	0.897758	0.0706407	0.90812	0.9	1.05	0.03164	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.13432	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.13432	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.13432	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_172	'CHAN+TASCOS6230.00 230KV'	0.968155	0.899792	0.0683638	0.90812	0.9	1.05	0.13432	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_172	'CHISHOLM6 230.00 230KV'	1.000288	0.948971	0.0513175	0.94897	0.95	1.05	0.10344	System Intact
FDNSLock	06ALL	2	18SP	G16_172	'COBRN_CREEK3115.00 115KV'	1.025514	1.086157	0.060643	1.03258	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'CRAWFISH_DR 345.00 345KV'	0.986024	0.894426	0.0915983	0.90018	0.9	1.05	0.15508	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.985125	0.893163	0.0919619	0.88811	0.9	1.05	0.12697	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	G16_172	'CRAWFISH_DR 345.00 345KV'	0.986513	0.894866	0.0916473	0.90018	0.9	1.05	0.15508	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.979369	0.874221	0.105148	0.88811	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.980162	0.882819	0.0973431	0.88811	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.980035	0.879063	0.100972	0.88811	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.979677	0.87909	0.100586	0.88811	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'CRAWFISH_DR 345.00 345KV'	0.986521	0.895047	0.0914748	0.90018	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.98015	0.882266	0.0978838	0.88811	0.9	1.05	0.04661	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.979179	0.875628	0.10355	0.88811	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.979218	0.874262	0.104955	0.88811	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'CRAWFISH_DR 345.00 345KV'	0.987111	0.89255	0.0945614	0.90018	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.9796	0.877547	0.102054	0.88811	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.9807	0.888114	0.0925859	0.88811	0.95	1.05	0.12697	System Intact
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.9807	0.888114	0.0925859	0.88811	0.95	1.05	0.12697	System Intact
FDNS	06ALL	0	21WP	G16_172	'CRAWFISH_DR 345.00 345KV'	0.986551	0.900183	0.0863677	0.90018	0.95	1.05	0.15508	System Intact
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.980371	0.869743	0.110627	0.88811	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'CRAWFISH_DR 345.00 345KV'	0.980371	0.869743	0.110627	0.88811	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956563	0.89836	0.0582028	0.927	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'DEAF SMITH COUNTY INTERCHANGE 230KV'	0.956826	0.89407	0.0627569	0.927	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'DEMPSEY6 230.00 230KV'	1.02	1.084848	0.0648477	1.02125	0.92	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.986993	0.898431	0.0885621	0.89054	0.9	1.05	0.12697	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980215	0.876867	0.103349	0.89054	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980991	0.885339	0.0956521	0.89054	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980867	0.881641	0.0992262	0.89054	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980517	0.881672	0.0988451	0.89054	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'ELK_CT1 345.00 345KV'	0.987173	0.897473	0.0897	0.90252	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980978	0.884794	0.0961838	0.89054	0.9	1.05	0.04661	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980031	0.87826	0.101771	0.89054	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980069	0.876909	0.10316	0.89054	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'ELK_CT1 345.00 345KV'	0.98777	0.89501	0.0927594	0.90252	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.980443	0.880149	0.100294	0.89054	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.98118	0.872152	0.109028	0.89054	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'ELK_CT1 345.00 345KV'	0.98118	0.872152	0.109028	0.89054	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.039841	1.070043	0.0302023	1.07636	0.9	1.05	0.06915	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.08773	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.08773	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.08773	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.039276	1.065471	0.0261956	1.07636	0.9	1.05	0.08773	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.034487	1.055636	0.0211487	1.07636	0.9	1.05	0.04342	'CHISHOLM6 230.00 - ELK CITY 230KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.039885	1.066267	0.0263828	1.07636	0.9	1.05	0.05577	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.04342	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.034577	1.055887	0.0213096	1.07636	0.9	1.05	0.04342	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.07732	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.044405	1.066878	0.0224739	1.07636	0.9	1.05	0.07732	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.07732	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.044444	1.066241	0.0217973	1.07636	0.9	1.05	0.07732	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.04416	1.070633	0.0264726	1.07636	0.9	1.05	0.06746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.02996	1.051067	0.021107	1.07636	0.9	1.05	0.04782	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.02996	1.051067	0.021107	1.07636	0.9	1.05	0.04782	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.033831	1.056216	0.0223856	1.07636	0.9	1.05	0.04825	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.033831	1.056216	0.0223856	1.07636	0.9	1.05	0.04825	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.06316	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.038936	1.061424	0.0224878	1.07636	0.9	1.05	0.06316	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.05663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.039113	1.066183	0.02707	1.07636	0.9	1.05	0.05663	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.0651	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	2	21L	G16_172	'EVA REGULATOR 69KV'	1.035187	1.060975	0.0257888	1.07636	0.9	1.05	0.0651	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21WP	G16_172	'EVA REGULATOR 69KV'	1	0.891847	0.108153	0.90099	0.9	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'EVA REGULATOR 69KV'	0.911664	0.889065	0.0225987	0.90099	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	2	21SP	G16_172	'EXCELN4-HV13115.00 115KV'	1.023353	1.053408	0.0300555	1.0299	0.9	1.05	0.0319	'Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'EXCELN4-HV13115.00 115KV'	1.023353	1.053408	0.0300555	1.0299	0.9	1.05	0.0319	'Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'EXCELN4-HV23115.00 115KV'	1.022344	1.052418	0.0300747	1.02889	0.9	1.05	0.0319	'Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'EXCELN4-HV23115.00 115KV'	1.022344	1.052418	0.0300747	1.02889	0.9	1.05	0.0319	'Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'FREWHELCOL17345.00 345KV'	0.999681	0.890177	0.109504	0.90694	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'FREWHELCOL17345.00 345KV'	1.000063	0.898434	0.101628	0.90694	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'FREWHELCOL17345.00 345KV'	0.997988	0.89405	0.103938	0.90694	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'FREWHELCOL17345.00 345KV'	0.998664	0.894791	0.103873	0.90694	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'FREWHELCOL17345.00 345KV'	0.996877	0.891114	0.105763	0.90694	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'FREWHELCOL17345.00 345KV'	0.997933	0.892895	0.105038	0.90694	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'FREWHELCOL17345.00 345KV'	0.999305	0.895412	0.103893	0.90694	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'FREWHELCOL17345.00 345KV'	0.999305	0.895412	0.103893	0.90694	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G06-44 115.00 115KV'	1.004135	0.895075	0.10906	0.91176	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G06-44 115.00 115KV'	1.002443	0.89893	0.103514	0.91176	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G06-44 115.00 115KV'	1.003118	0.899667	0.103451	0.91176	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G06-44 115.00 115KV'	1.001334	0.896008	0.105326	0.91176	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G06-44 115.00 115KV'	1.002388	0.89778	0.104608	0.91176	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14 345.00 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'G10-14 345.00 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14 345.00 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14 345.00 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14 345.00 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14 345.00 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14 345.00 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14 345.00 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14-1 115.00 115KV'	1.002537	0.893293	0.109244	0.91001	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14-1 115.00 115KV'	1.000842	0.897155	0.103687	0.91001	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14-1 115.00 115KV'	1.001519	0.897894	0.103625	0.91001	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14-1 115.00 115KV'	0.99973	0.894228	0.105502	0.91001	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14-1 115.00 115KV'	1.000787	0.896003	0.104783	0.91001	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14-1 115.00 115KV'	1.002161	0.898514	0.103647	0.91001	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G10-14-1 115.00 115KV'	1.002161	0.898514	0.103647	0.91001	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.968629	0.87124	0.0973891	0.87749	0.9	1.05	0.0528	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03318	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.967938	0.871167	0.0967715	0.87749	0.9	1.05	0.03318	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.968898	0.870405	0.0984938	0.87749	0.9	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_172	'G1149G1504 345.00 345KV'	0.967197	0.890522	0.0766751	0.95785	0.9	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.97206	0.882626	0.0894338	0.87749	0.9	1.05	0.05432	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.968408	0.860711	0.107696	0.87749	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.968558	0.870812	0.0977464	0.87749	0.9	1.05	0.0528	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.968879	0.872198	0.0966812	0.87749	0.9	1.05	0.04716	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.969365	0.871988	0.0973775	0.87749	0.9	1.05	0.04661	'HAPPY INTERCHANGE - PALO DURO SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.96924	0.871001	0.0982388	0.87749	0.9	1.05	0.04661	'HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.968979	0.869823	0.0991556	0.87749	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.968793	0.864994	0.103799	0.87749	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.967674	0.862723	0.10495	0.87749	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.969149	0.869639	0.09951	0.87749	0.9	1.05	0.04661	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.966796	0.85835	0.108446	0.87749	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.966661	0.856513	0.110148	0.87749	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.969336	0.871734	0.0976025	0.87749	0.9	1.05	0.04661	'PALO DURO SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.967364	0.860603	0.10676	0.87749	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'G1149G1504 345.00 345KV'	0.969859	0.863968	0.105891	0.87749	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'G16-045-SUB1345.00 345KV'	1	1.264422	0.264422	1.25588	0.9	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'G16-045-SUB2345.00 345KV'	1	1.2884	0.2884	1.27969	0.9	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'GEN-2016-057345.00 345KV'	1	1.276997	0.276997	1.26837	0.9	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'GEN-2016-057345.00 345KV'	1	1.324082	0.324082	1.31513	0.9	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.987686	0.8893	0.098386	0.89793	0.9	1.05	0.08482	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.987627	0.890547	0.0970804	0.89794	0.9	1.05	0.05631	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.987721	0.890309	0.097412	0.89793	0.9	1.05	0.08482	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.987658	0.887568	0.10009	0.89793	0.9	1.05	0.08482	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.986245	0.893592	0.0926524	0.89794	0.9	1.05	0.10674	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.986045	0.890344	0.0957015	0.89794	0.9	1.05	0.04869	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.987693	0.888821	0.0988725	0.89794	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	1	0.889226	0.110774	0.89794	0.9	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.987724	0.892846	0.0948775	0.89794	0.9	1.05	0.15608	'KRESS INTERCHANGE - NEWHART 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.987716	0.887688	0.100028	0.89793	0.9	1.05	0.08482	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.987758	0.886429	0.10133	0.89794	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.987251	0.890864	0.0963873	0.89794	0.9	1.05	0.04261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.98772	0.890597	0.0971233	0.89793	0.9	1.05	0.08482	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.07069	System Intact
FDNS	06ALL	0	21L	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.989845	0.916567	0.0732779	0.91657	0.95	1.05	0.07069	System Intact
FDNS	06ALL	0	21WP	G16_172	'GRAPEVINE INTERCHANGE 230KV'	0.987715	0.897935	0.0897798	0.89794	0.95	1.05	0.08482	System Intact
FDNSLock	06ALL	2	18SP	G16_172	'Graves Sub 115KV'	1.02286	1.073505	0.0506449	1.02368	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'GRAVES SUB 69KV'	1.019223	1.076678	0.0574549	1.02628	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'GREENBELT REC-KELLERVILLE 69KV'	1.022793	1.059641	0.0368478	1.02722	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'GREENBELT REC-WHEELER 69KV'	1.018432	1.075929	0.0574974	1.02549	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.990852	0.886974	0.103878	0.89231	0.9	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.9924	0.899665	0.092734	0.906	0.9	1.05	0.08475	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.991623	0.897496	0.0941273	0.906	0.9	1.05	0.08475	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.991574	0.876381	0.115194	0.89231	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.986543	0.878684	0.107858	0.89231	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.985459	0.872436	0.113023	0.89231	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.989879	0.87993	0.109949	0.89231	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.992392	0.898723	0.0936691	0.906	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'HITCHLAND INTERCHANGE 230KV'	1	0.898257	0.101743	0.906	0.9	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.899397	0.0930243	0.906	0.9	1.05	0.08475	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.990625	0.880657	0.109968	0.89231	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.989009	0.876968	0.112041	0.89231	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.992235	0.896104	0.0961305	0.906	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.98982	0.878583	0.111238	0.89231	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.07153	System Intact
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.990887	0.892308	0.0985786	0.89231	0.95	1.05	0.07153	System Intact
FDNS	06ALL	0	21SP	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.08879	System Intact
FDNS	06ALL	0	21SP	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.997279	0.948785	0.0484942	0.94879	0.95	1.05	0.08879	System Intact
FDNS	06ALL	0	21WP	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.992422	0.906	0.0864221	0.906	0.95	1.05	0.08475	System Intact
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.990774	0.879976	0.110798	0.89231	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'HITCHLAND INTERCHANGE 230KV'	0.990774	0.879976	0.110798	0.89231	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	0.999676	0.890143	0.109532	0.90691	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	1.000059	0.898401	0.101658	0.90691	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	0.997976	0.894016	0.10396	0.90691	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	0.998655	0.894757	0.103898	0.90691	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	0.996862	0.891081	0.105781	0.90691	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	0.997921	0.892861	0.105059	0.90691	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.1902	System Intact
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	0.9994	0.906907	0.0924932	0.90691	0.95	1.05	0.1902	System Intact
FDNS	06ALL	0	21WP	G16_172	'Hitchland Interchange 345KV'	1.002146	0.922169	0.0799766	0.92217	0.95	1.05	0.22326	System Intact
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'Hitchland Interchange 345KV'	0.999298	0.895379	0.10392	0.90691	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'HOLLIS 138KV'	0.976893	0.911222	0.0656702	0.9869	0.92	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'HOLLIS TAP 138KV'	0.976866	0.911279	0.0655869	0.98686	0.92	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	2	21L	G16_172	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.9	1.05	0.09544	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'JERICHO 69KV'	1.022854	1.051907	0.0290534	1.03672	0.92	1.05	0.09544	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.9	1.05	0.09544	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'JERICHO 69KV'	1.023344	1.052554	0.0292096	1.03672	0.92	1.05	0.09544	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'KINGSMILL INTERCHANGE 69KV'	1.029913	1.052916	0.0230038	1.03322	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'LAWTON EASTSIDE 345KV'	0.988849	0.913434	0.0754145	0.97952	0.92	1.05	0.05508	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'LAWTON EASTSIDE 345KV'	0.989403	0.914396	0.0750066	0.97531	0.92	1.05	0.06746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_172	'LAWTON EASTSIDE 345KV'	0.989431	0.918226	0.0712057	0.97728	0.92	1.05	0.0675	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.15597	System Intact
FDNS	06ALL	0	21L	G16_172	'LAWTON EASTSIDE 345KV'	1.007004	0.947385	0.059619	0.94739	0.95	1.05	0.15597	System Intact
FDNSLock	06ALL	2	18SP	G16_172	'LYONS SUB 69KV'	1.014907	1.052071	0.0371634	1.01937	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'LYONS TAP 69KV'	1.02031	1.057277	0.0369672	1.02475	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'MAGIC CITY 69KV'	1.015956	1.073698	0.057742	1.02305	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'MCCULLOUGH SUB 69KV'	1.029286	1.058355	0.0290693	1.03294	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.9	1.05	0.11712	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'MEMPHIS 69KV'	1.026075	1.050965	0.0248905	1.01539	0.92	1.05	0.11712	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.9	1.05	0.11712	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'MEMPHIS 69KV'	1.026116	1.050535	0.0244195	1.01539	0.92	1.05	0.11712	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.06018	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.06018	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.9	1.05	0.06018	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'MEMPHIS 69KV'	1.022959	1.051213	0.0282545	1.01539	0.92	1.05	0.06018	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	1	0.89583	0.10417	0.88973	0.9	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.984361	0.88184	0.10252	0.88973	0.9	1.05	0.073	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	1	0.899523	0.100477	0.88973	0.9	1.05	0.073	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.984429	0.883546	0.100883	0.88973	0.9	1.05	0.05631	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	1	0.897376	0.102624	0.88973	0.9	1.05	0.15508	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.9844	0.882784	0.101617	0.88973	0.9	1.05	0.073	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.984013	0.880494	0.10352	0.88973	0.9	1.05	0.073	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.980024	0.892019	0.0880049	0.90209	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18SP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.973131	0.887827	0.0853035	0.97465	0.9	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.980881	0.891962	0.0889189	0.92201	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.978427	0.894821	0.0836055	0.90209	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.978885	0.894146	0.0847391	0.90209	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.984366	0.881034	0.103332	0.88973	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	1	0.880735	0.119265	0.88973	0.9	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.98433	0.884213	0.100117	0.88973	0.9	1.05	0.15608	'KRESS INTERCHANGE - NEWHART 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.881206	0.103188	0.88973	0.9	1.05	0.073	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.984782	0.898919	0.0858634	0.88973	0.9	1.05	0.08422	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.979439	0.894086	0.0853535	0.90209	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.978672	0.891548	0.0871245	0.90209	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.958425	0.898039	0.0603866	0.922	0.9	1.05	0.07642	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.969552	0.897217	0.0723359	0.922	0.9	1.05	0.07642	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.983895	0.877033	0.106862	0.88973	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.981309	0.89794	0.0833692	0.922	0.9	1.05	0.07642	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.984051	0.882411	0.10164	0.88973	0.9	1.05	0.04261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.978818	0.892704	0.0861139	0.90209	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.984412	0.88307	0.101342	0.88973	0.9	1.05	0.073	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	1	0.895688	0.104312	0.88973	0.9	1.05	0.073	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.06282	System Intact
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.978925	0.902086	0.0768393	0.90209	0.95	1.05	0.06282	System Intact
FDNS	06ALL	0	21SP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.07642	System Intact
FDNS	06ALL	0	21SP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.982248	0.922006	0.0602421	0.92201	0.95	1.05	0.07642	System Intact
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.984394	0.889732	0.0946618	0.88973	0.95	1.05	0.073	System Intact
FDNS	06ALL	0	21SP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.98052	0.896604	0.083916	0.92201	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.98052	0.896604	0.083916	0.92201	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.978815	0.891285	0.0875295	0.90209	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.978815	0.891285	0.0875295	0.90209	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'MOORE COUNTY INTERCHANGE 230KV'	0.984493	0.896089	0.0884044	0.88973	0.9	1.05	0.073	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNSLock	06ALL	2	18SP	G16_172	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'NEXTERA 230KV'	1.019908	1.081619	0.0617117	1.01831	0.92	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'NICHOLS STATION 230KV'	1.007788	0.942771	0.0650167	0.94277	0.95	1.05	0.03167	System Intact
FDNS	06ALL	0	21L	G16_172	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 3115.00 115KV'	1.000878	0.893891	0.106987	0.9106	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 3115.00 115KV'	0.999577	0.89775	0.101827	0.9106	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_172	'NOVUS1 3115.00 115KV'	1.000096	0.898488	0.101608	0.9106	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 3115.00 115KV'	0.998723	0.894825	0.103898	0.9106	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 3115.00 115KV'	0.999534	0.896599	0.102935	0.9106	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 3115.00 115KV'	1.000589	0.899108	0.101481	0.9106	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 3115.00 115KV'	1.000589	0.899108	0.101481	0.9106	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 7345.00 345KV'	0.999704	0.890184	0.10952	0.90695	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 7345.00 345KV'	1.000087	0.898441	0.101646	0.90695	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 7345.00 345KV'	0.998007	0.894057	0.10395	0.90695	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 7345.00 345KV'	0.998684	0.894798	0.103886	0.90695	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 7345.00 345KV'	0.996893	0.891121	0.105771	0.90695	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 7345.00 345KV'	0.997951	0.892902	0.105049	0.90695	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 7345.00 345KV'	0.999327	0.895419	0.103908	0.90695	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'NOVUS1 7345.00 345KV'	0.999327	0.895419	0.103908	0.90695	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.9	1.05	0.11712	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'NW MEMPHIS 69KV'	1.026933	1.050973	0.0240396	1.01618	0.92	1.05	0.11712	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.9	1.05	0.11712	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'NW MEMPHIS 69KV'	1.026985	1.050566	0.023581	1.01618	0.92	1.05	0.11712	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.06018	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.06018	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.9	1.05	0.06018	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	2	21SP	G16_172	'NW MEMPHIS 69KV'	1.023742	1.051137	0.027395	1.01618	0.92	1.05	0.06018	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OCHILTREE 230KV'	1	0.899887	0.100113	0.89422	0.9	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.989882	0.88333	0.106552	0.88854	0.9	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OCHILTREE 230KV'	0.981367	0.889038	0.0923285	0.89422	0.9	1.05	0.05631	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.990686	0.87324	0.117446	0.88854	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OCHILTREE 230KV'	0.979564	0.896802	0.0827622	0.93289	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.06369	'Hitchland Interchange (H T880155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.986261	0.876501	0.10976	0.88854	0.9	1.05	0.06369	'Hitchland Interchange (H T880155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.985379	0.870746	0.114633	0.88854	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.98904	0.876605	0.112435	0.88854	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OCHILTREE 230KV'	0.981305	0.886728	0.0945769	0.89422	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OCHILTREE 230KV'	1	0.886255	0.113745	0.89422	0.9	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.98985	0.87741	0.11244	0.88854	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.988305	0.873763	0.114542	0.88854	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'OCHILTREE 230KV'	0.981167	0.884006	0.0971605	0.89422	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'OCHILTREE 230KV'	0.981029	0.888289	0.0927395	0.89422	0.9	1.05	0.04261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.988998	0.875227	0.113771	0.88854	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.989752	0.87607	0.113682	0.88854	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OCHILTREE 230KV'	0.989752	0.87607	0.113682	0.88854	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.12338	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.989189	0.912321	0.0768682	0.92105	0.92	1.05	0.12338	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977628	0.878514	0.0991141	0.90693	0.92	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.9	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.834263	0.165737	0.82662	0.92	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.9	1.05	0.0528	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975342	0.810956	0.164386	0.82236	0.92	1.05	0.0528	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.07129	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.07129	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.08294	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.08294	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.9	1.05	0.07129	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97693	0.817236	0.159694	0.82236	0.92	1.05	0.07129	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.9	1.05	0.08294	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978663	0.821378	0.157285	0.82662	0.92	1.05	0.08294	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.08702	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980537	0.900088	0.0804487	0.90693	0.92	1.05	0.08702	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06368	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06368	'BENTON - WICHITA 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.9	1.05	0.06368	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978641	0.821105	0.157536	0.82662	0.92	1.05	0.06368	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.9865	0.909737	0.0767626	0.92105	0.92	1.05	0.03687	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.9	1.05	0.03109	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978093	0.887821	0.0902719	0.90693	0.92	1.05	0.03109	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.9	1.05	0.0972	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	1.00097	0.888706	0.112265	0.95817	0.92	1.05	0.0972	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1.002267	0.907976	0.0942918	0.9613	0.92	1.05	0.11517	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.9	1.05	0.09762	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	1.001411	0.898528	0.102883	0.96159	0.92	1.05	0.09762	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1.002849	0.912851	0.0899981	0.96336	0.92	1.05	0.11552	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.9	1.05	0.12203	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.981698	0.882101	0.0995972	0.92105	0.92	1.05	0.12203	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.9	1.05	0.03318	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.92	1.05	0.03318	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.9	1.05	0.03318	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975857	0.814082	0.161775	0.82236	0.92	1.05	0.03318	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03658	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03658	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.9	1.05	0.03658	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979081	0.899082	0.0799987	0.90693	0.92	1.05	0.03658	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08594	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.988869	0.915819	0.0730501	0.92105	0.92	1.05	0.08594	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.9	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97578	0.810748	0.165032	0.82236	0.92	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.08444	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.989671	0.914596	0.0750753	0.92105	0.92	1.05	0.08444	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.08273	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.08273	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.9	1.05	0.08273	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978242	0.886382	0.0918592	0.90693	0.92	1.05	0.08273	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.07534	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.07534	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.9	1.05	0.07534	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980358	0.898341	0.0820174	0.90693	0.92	1.05	0.07534	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.98716	0.904949	0.0822111	0.92105	0.92	1.05	0.10322	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.9	1.05	0.09952	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978402	0.889189	0.0892129	0.90693	0.92	1.05	0.09952	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.1355	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.1355	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.1355	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.989577	0.915271	0.0743065	0.92105	0.92	1.05	0.1355	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980195	0.896714	0.0834813	0.90693	0.92	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.9873	0.910261	0.077039	0.92105	0.92	1.05	0.04627	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.9	1.05	0.04599	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978408	0.893831	0.0845775	0.90693	0.92	1.05	0.04599	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.9	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97371	0.838516	0.135193	0.92105	0.92	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.9	1.05	0.10082	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.982009	0.89312	0.0888888	0.92105	0.92	1.05	0.10082	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.9	1.05	0.09381	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976159	0.881288	0.094871	0.90693	0.92	1.05	0.09381	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.9	1.05	0.04895	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977592	0.814231	0.163362	0.82236	0.92	1.05	0.04895	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.988	0.912526	0.0754739	0.90693	0.92	1.05	0.13028	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.9	1.05	0.03627	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976369	0.814477	0.161892	0.82236	0.92	1.05	0.03627	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.9	1.05	0.05631	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97879	0.817345	0.161444	0.82662	0.92	1.05	0.05631	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	1.004016	0.909447	0.0945695	0.95817	0.92	1.05	0.09862	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	1.003876	0.916102	0.0877743	0.96159	0.92	1.05	0.09905	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.984929	0.914829	0.0701002	0.90693	0.92	1.05	0.05903	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980148	0.828259	0.151889	0.82236	0.9	1.05	0.12697	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980148	0.828259	0.151889	0.82236	0.92	1.05	0.12697	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.9	1.05	0.15508	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.836797	0.163203	0.82662	0.92	1.05	0.15508	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05131	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05131	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.9	1.05	0.05131	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977218	0.817354	0.159865	0.82236	0.92	1.05	0.05131	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04627	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.987351	0.910412	0.0769386	0.92105	0.92	1.05	0.04627	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04599	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04599	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.9	1.05	0.04599	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978453	0.893956	0.0844969	0.90693	0.92	1.05	0.04599	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.121	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.986421	0.900473	0.0859482	0.92105	0.92	1.05	0.121	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.121	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.121	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.9	1.05	0.121	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.985649	0.899643	0.0860058	0.92105	0.92	1.05	0.121	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.9778	0.885672	0.092128	0.90693	0.92	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.98	0.893121	0.0868786	0.90693	0.92	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.9	1.05	0.05432	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980339	0.828918	0.151421	0.82236	0.92	1.05	0.05432	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.9	1.05	0.05432	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980726	0.829473	0.151252	0.82236	0.92	1.05	0.05432	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.9	1.05	0.03627	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976529	0.814958	0.161571	0.82236	0.92	1.05	0.03627	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.9	1.05	0.05631	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978889	0.820146	0.158744	0.82662	0.92	1.05	0.05631	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975564	0.797527	0.178037	0.82236	0.92	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.9	1.05	0.10082	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978847	0.886634	0.0922134	0.92105	0.92	1.05	0.10082	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.9	1.05	0.09381	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.973358	0.877753	0.0956051	0.90693	0.92	1.05	0.09381	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.9	1.05	0.0528	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975469	0.810806	0.164663	0.82236	0.92	1.05	0.0528	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.9	1.05	0.04869	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.832587	0.167413	0.82662	0.92	1.05	0.04869	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.983732	0.912099	0.0716323	0.92105	0.92	1.05	0.05669	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.9	1.05	0.05508	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975507	0.893805	0.0817016	0.90693	0.92	1.05	0.05508	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.9	1.05	0.05508	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.973708	0.843787	0.129921	0.90693	0.92	1.05	0.05508	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	1.007264	0.914312	0.0929524	0.95817	0.92	1.05	0.06746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	1.007696	0.919528	0.0881681	0.96159	0.92	1.05	0.0675	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.9	1.05	0.10674	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97829	0.821196	0.157095	0.82662	0.92	1.05	0.10674	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.9	1.05	0.10674	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977538	0.82082	0.156718	0.82662	0.92	1.05	0.10674	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.9	1.05	0.10674	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977537	0.820819	0.156718	0.82662	0.92	1.05	0.10674	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.9	1.05	0.10674	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977302	0.819764	0.157538	0.82662	0.92	1.05	0.10674	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.9	1.05	0.04869	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975394	0.813797	0.161597	0.82662	0.92	1.05	0.04869	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.985011	0.912126	0.0728853	0.90693	0.92	1.05	0.11254	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.9	1.05	0.04716	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976606	0.814764	0.161842	0.82236	0.92	1.05	0.04716	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.09045	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.09045	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.9	1.05	0.09045	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.876869	0.123131	0.92105	0.92	1.05	0.09045	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.0933	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.0933	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.9	1.05	0.0933	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.890695	0.109305	0.92105	0.92	1.05	0.0933	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977297	0.814434	0.162864	0.82236	0.9	1.05	0.04661	'HAPPY INTERCHANGE - PALO DURO SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977297	0.814434	0.162864	0.82236	0.92	1.05	0.04661	'HAPPY INTERCHANGE - PALO DURO SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977107	0.813034	0.164073	0.82236	0.9	1.05	0.04661	'HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977107	0.813034	0.164073	0.82236	0.92	1.05	0.04661	'HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980869	0.898178	0.0826914	0.90693	0.9	1.05	0.04741	'HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980869	0.898178	0.0826914	0.90693	0.92	1.05	0.04741	'HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.08543	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.987879	0.906545	0.0813338	0.92105	0.92	1.05	0.08543	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.9	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978717	0.882379	0.0963377	0.90693	0.92	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.23654	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.23654	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.9	1.05	0.23654	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.991293	0.876389	0.114904	0.95632	0.92	1.05	0.23654	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.9	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.990723	0.87815	0.112574	0.95993	0.92	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.14483	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	1.006676	0.905008	0.101668	0.95817	0.92	1.05	0.14483	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.15817	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	1.006209	0.910131	0.096078	0.96159	0.92	1.05	0.15817	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978096	0.874518	0.103579	0.90693	0.92	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976873	0.811795	0.165078	0.82236	0.92	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976642	0.805198	0.171445	0.82236	0.92	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975217	0.802551	0.172667	0.82236	0.92	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06882	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06882	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.9	1.05	0.06882	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.98005	0.899837	0.0802126	0.90693	0.92	1.05	0.06882	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04115	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04115	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.9	1.05	0.04115	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.834107	0.165893	0.82662	0.92	1.05	0.04115	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.03913	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.03913	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.9	1.05	0.03913	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.975749	0.815799	0.15995	0.82236	0.92	1.05	0.03913	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979294	0.816588	0.162706	0.82662	0.92	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.9	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1	0.819516	0.180484	0.82662	0.92	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97964	0.82149	0.15815	0.82662	0.9	1.05	0.15608	'KRESS INTERCHANGE - NEWHART 115KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97964	0.82149	0.15815	0.82662	0.92	1.05	0.15608	'KRESS INTERCHANGE - NEWHART 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976974	0.811136	0.165839	0.82236	0.9	1.05	0.04661	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.976974	0.811136	0.165839	0.82236	0.92	1.05	0.04661	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980805	0.897336	0.0834684	0.90693	0.9	1.05	0.04741	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980805	0.897336	0.0834684	0.90693	0.92	1.05	0.04741	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979438	0.821531	0.157907	0.82662	0.9	1.05	0.03325	'MANHATTAN SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979438	0.821531	0.157907	0.82662	0.92	1.05	0.03325	'MANHATTAN SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.9	1.05	0.08422	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979503	0.835244	0.144259	0.82662	0.92	1.05	0.08422	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.9	1.05	0.10858	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978107	0.883386	0.0947209	0.92105	0.92	1.05	0.10858	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.9	1.05	0.07524	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979272	0.897923	0.0813496	0.90693	0.92	1.05	0.07524	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.9	1.05	0.07519	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979276	0.897924	0.0813521	0.90693	0.92	1.05	0.07519	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06531	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.989081	0.915814	0.0732667	0.92105	0.92	1.05	0.06531	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.973717	0.795087	0.178631	0.82236	0.92	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.07039	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980152	0.900762	0.0793899	0.90693	0.92	1.05	0.07039	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.988977	0.915872	0.0731052	0.92105	0.92	1.05	0.06558	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.974052	0.793744	0.180308	0.82236	0.92	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.9	1.05	0.06954	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979655	0.898747	0.0809081	0.90693	0.92	1.05	0.06954	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.07392	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.987523	0.907259	0.0802643	0.92105	0.92	1.05	0.07392	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.19309	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.989144	0.912432	0.0767128	0.92105	0.92	1.05	0.19309	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977927	0.875245	0.102681	0.90693	0.92	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980043	0.815384	0.164659	0.82662	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980043	0.815384	0.164659	0.82662	0.92	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97725	0.814071	0.163178	0.82236	0.9	1.05	0.04661	'PALO DURO SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.97725	0.814071	0.163178	0.82236	0.92	1.05	0.04661	'PALO DURO SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03505	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03505	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.9	1.05	0.03505	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979088	0.821298	0.157791	0.82662	0.92	1.05	0.03505	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.0662	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.988662	0.914379	0.0742828	0.92105	0.92	1.05	0.0662	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.974773	0.799356	0.175417	0.82236	0.92	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.06801	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.06801	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.9	1.05	0.06801	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.979688	0.899769	0.0799189	0.90693	0.92	1.05	0.06801	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.9	1.05	0.0947	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.977849	0.843276	0.134573	0.92105	0.92	1.05	0.0947	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	1.009382	0.908955	0.100427	0.95817	0.92	1.05	0.07916	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_172	'OKLAUN HVDC7345.00 345KV'	1.005603	0.919735	0.0858682	0.9613	0.92	1.05	0.09385	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.990529	0.913484	0.0770449	0.92105	0.92	1.05	0.13199	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.990529	0.913484	0.0770449	0.92105	0.92	1.05	0.13199	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980974	0.899924	0.0810502	0.90693	0.9	1.05	0.03193	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980974	0.899924	0.0810502	0.90693	0.92	1.05	0.03193	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980974	0.899924	0.0810502	0.90693	0.9	1.05	0.03193	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980974	0.899924	0.0810502	0.90693	0.92	1.05	0.03193	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.9	1.05	0.11021	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980195	0.875814	0.104381	0.92105	0.92	1.05	0.11021	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.9	1.05	0.11021	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980171	0.875531	0.10464	0.92105	0.92	1.05	0.11021	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.99092	0.919373	0.0715467	0.90693	0.92	1.05	0.11101	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.9	1.05	0.10858	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUN HVDC7345.00 345KV'	0.983407	0.893025	0.0903822	0.92105	0.92	1.05	0.10858	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.9	1.05	0.07514	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980147	0.89673	0.083417	0.90693	0.92	1.05	0.07514	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.9	1.05	0.07529	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.980133	0.8966	0.0835336	0.90693	0.92	1.05	0.07529	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.92	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.98042	0.88507	0.0953503	0.90693	0.92	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.92	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUN HVDC7345.00 345KV'	0.978032	0.804274	0.173758	0.82236	0.92	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.13432	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.13432	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.13432	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUN HVDC7345.00 345KV'	0.981596	0.900575	0.0810209	0.90693	0.92	1.05	0.13432	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.12338	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.989	0.912146	0.0768536	0.92088	0.92	1.05	0.12338	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977441	0.878346	0.0990952	0.90675	0.92	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.9	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.834104	0.165896	0.82646	0.92	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.9	1.05	0.0528	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975173	0.810801	0.164372	0.8222	0.92	1.05	0.0528	'AXTELL - G16-050-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.07129	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.07129	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.08294	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.08294	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.9	1.05	0.07129	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976761	0.81708	0.159681	0.8222	0.92	1.05	0.07129	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.9	1.05	0.08294	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978476	0.821221	0.157255	0.82646	0.92	1.05	0.08294	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.08702	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.08702	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.9	1.05	0.08702	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980349	0.899916	0.0804334	0.90675	0.92	1.05	0.08702	'BADGER 345.00 - G16-003-TAP 345.00 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06368	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06368	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.9	1.05	0.06368	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978454	0.820948	0.157506	0.82646	0.92	1.05	0.06368	'BENTON - WICHITA 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.986311	0.909563	0.076748	0.92088	0.92	1.05	0.03687	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.9	1.05	0.03109	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977906	0.887651	0.0902547	0.90675	0.92	1.05	0.03109	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.9	1.05	0.0972	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUNION 345KV'	1.000797	0.888536	0.112261	0.95798	0.92	1.05	0.0972	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_172	'OKLAUNION 345KV'	1.002076	0.907802	0.0942737	0.96111	0.92	1.05	0.11517	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_172	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.9	1.05	0.09762	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21L	G16_172	'OKLAUNION 345KV'	1.001238	0.898356	0.102881	0.9614	0.92	1.05	0.09762	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	3	21WP	G16_172	'OKLAUNION 345KV'	1.002657	0.912676	0.0899807	0.96317	0.92	1.05	0.11552	'BORDER 7345.00 - CRAWFISH_DR 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.9	1.05	0.12203	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.981511	0.881933	0.099578	0.92088	0.92	1.05	0.12203	'BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.991068	0.915633	0.0754344	0.92088	0.92	1.05	0.19827	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.991068	0.915611	0.0754568	0.92088	0.92	1.05	0.19827	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.9	1.05	0.1951	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981936	0.897246	0.0846901	0.90675	0.92	1.05	0.1951	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.9	1.05	0.1951	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981936	0.897131	0.0848054	0.90675	0.92	1.05	0.1951	'BORDER 7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.9	1.05	0.03318	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.92	1.05	0.03318	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.9	1.05	0.03318	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975688	0.813926	0.161762	0.8222	0.92	1.05	0.03318	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03658	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03658	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.9	1.05	0.03658	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978894	0.89891	0.0799835	0.90675	0.92	1.05	0.03658	'BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08594	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.98868	0.915644	0.0730362	0.92088	0.92	1.05	0.08594	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.9	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975611	0.810593	0.165018	0.8222	0.92	1.05	0.05916	'BUFFALO7 345.00 - THISTLE7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.08444	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.989482	0.914421	0.075061	0.92088	0.92	1.05	0.08444	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.08273	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.08273	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.9	1.05	0.08273	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978055	0.886213	0.0918416	0.90675	0.92	1.05	0.08273	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.07534	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.07534	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.9	1.05	0.07534	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980171	0.898169	0.0820017	0.90675	0.92	1.05	0.07534	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.9	1.05	0.1951	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981651	0.895987	0.0856642	0.90675	0.92	1.05	0.1951	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.9	1.05	0.1951	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981624	0.895116	0.0865077	0.90675	0.92	1.05	0.1951	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.986971	0.904776	0.0821953	0.92088	0.92	1.05	0.10322	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.9	1.05	0.09952	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978215	0.889019	0.0891958	0.90675	0.92	1.05	0.09952	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.1355	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.1355	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.1355	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.989388	0.915096	0.0742922	0.92088	0.92	1.05	0.1355	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980008	0.896543	0.0834653	0.90675	0.92	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.9	1.05	0.18498	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979227	0.818031	0.161197	0.82646	0.92	1.05	0.18498	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.987111	0.910087	0.0770242	0.92088	0.92	1.05	0.04627	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.9	1.05	0.04599	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978221	0.89366	0.0845613	0.90675	0.92	1.05	0.04599	'CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.9	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.973523	0.838356	0.135167	0.92088	0.92	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.9	1.05	0.10082	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.981821	0.892949	0.0888718	0.92088	0.92	1.05	0.10082	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.9	1.05	0.09381	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.975972	0.881119	0.0948529	0.90675	0.92	1.05	0.09381	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.9	1.05	0.04895	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977423	0.814075	0.163348	0.8222	0.92	1.05	0.04895	'CIMARRON - DRAPER LAKE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.987811	0.912352	0.0754595	0.90675	0.92	1.05	0.13028	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.9	1.05	0.18498	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.836506	0.163494	0.82646	0.92	1.05	0.18498	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.9	1.05	0.03627	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.9762	0.814321	0.161879	0.8222	0.92	1.05	0.03627	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.9	1.05	0.05631	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978603	0.817189	0.161413	0.82646	0.92	1.05	0.05631	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUNION 345KV'	1.003842	0.909273	0.0945696	0.95798	0.92	1.05	0.09862	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_172	'OKLAUNION 345KV'	1.003703	0.915927	0.0877757	0.9614	0.92	1.05	0.09905	'CRAWFISH_DR 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.984741	0.914654	0.070087	0.90675	0.92	1.05	0.05903	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.979978	0.8281	0.151878	0.8222	0.9	1.05	0.12697	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.979978	0.8281	0.151878	0.8222	0.92	1.05	0.12697	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.9	1.05	0.15508	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.836637	0.163363	0.82646	0.92	1.05	0.15508	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.9	1.05	0.18498	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979446	0.819433	0.160013	0.82646	0.92	1.05	0.18498	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05131	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05131	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.9	1.05	0.05131	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977049	0.817197	0.159852	0.8222	0.92	1.05	0.05131	'DGRASSE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.9	1.05	0.18498	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979376	0.817503	0.161873	0.82646	0.92	1.05	0.18498	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04627	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.987162	0.910238	0.0769238	0.92088	0.92	1.05	0.04627	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04599	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04599	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.9	1.05	0.04599	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.978266	0.893785	0.0844807	0.90675	0.92	1.05	0.04599	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.121	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.986232	0.900301	0.0859318	0.92088	0.92	1.05	0.121	'FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.121	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.121	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.9	1.05	0.121	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.985461	0.899471	0.0859894	0.92088	0.92	1.05	0.121	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977613	0.885503	0.0921104	0.90675	0.92	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979812	0.89295	0.086862	0.90675	0.92	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.9	1.05	0.05432	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.98017	0.82876	0.15141	0.8222	0.92	1.05	0.05432	'G15063_T 345.00 - MATHWSN7 345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.9	1.05	0.05432	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.980556	0.829315	0.151241	0.8222	0.92	1.05	0.05432	'G15063_T 345.00 - WOODRING 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.9	1.05	0.03627	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.97636	0.814802	0.161557	0.8222	0.92	1.05	0.03627	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.9	1.05	0.05631	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978702	0.819989	0.158713	0.82646	0.92	1.05	0.05631	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975396	0.797374	0.178021	0.8222	0.92	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.9	1.05	0.10082	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.97866	0.886465	0.0921957	0.92088	0.92	1.05	0.10082	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.9	1.05	0.09381	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.973172	0.877585	0.0955868	0.90675	0.92	1.05	0.09381	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.9	1.05	0.0528	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975301	0.810651	0.16465	0.8222	0.92	1.05	0.0528	'G16-050-TAP 345.00 - POST ROCK 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.9	1.05	0.04869	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.832428	0.167572	0.82646	0.92	1.05	0.04869	'G16-063-TAP 345.00 - HUGO 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.983544	0.911925	0.0716185	0.92088	0.92	1.05	0.05669	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.9	1.05	0.05508	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.97532	0.893634	0.081686	0.90675	0.92	1.05	0.05508	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.9	1.05	0.05508	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.973522	0.843626	0.129896	0.90675	0.92	1.05	0.05508	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUNION 345KV'	1.00709	0.914137	0.0929529	0.95798	0.92	1.05	0.06746	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_172	'OKLAUNION 345KV'	1.007522	0.919352	0.0881696	0.9614	0.92	1.05	0.0675	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.9	1.05	0.10674	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978103	0.821039	0.157065	0.82646	0.92	1.05	0.10674	'GEN515040 1-SEMINOLE 1G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.9	1.05	0.10674	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.977351	0.820663	0.156688	0.82646	0.92	1.05	0.10674	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.9	1.05	0.10674	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.97735	0.820662	0.156688	0.82646	0.92	1.05	0.10674	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.9	1.05	0.10674	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.977115	0.819607	0.157508	0.82646	0.92	1.05	0.10674	'GEN515226 1-MUSKOGEE 6G'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.9	1.05	0.04869	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.975208	0.813641	0.161567	0.82646	0.92	1.05	0.04869	'GEN520947 1-HUGO1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.984823	0.911952	0.0728713	0.90675	0.92	1.05	0.11254	'GEN531447 1-HOLCOMB GENERATOR'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.9	1.05	0.04716	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976438	0.814608	0.161829	0.8222	0.92	1.05	0.04716	'GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.09045	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.09045	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.9	1.05	0.09045	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	1	0.876701	0.123299	0.92088	0.92	1.05	0.09045	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.0933	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.0933	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.9	1.05	0.0933	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	1	0.890525	0.109475	0.92088	0.92	1.05	0.0933	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977128	0.814278	0.16285	0.8222	0.9	1.05	0.04661	'HAPPY INTERCHANGE - PALO DURO SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977128	0.814278	0.16285	0.8222	0.92	1.05	0.04661	'HAPPY INTERCHANGE - PALO DURO SUB 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976938	0.812879	0.164059	0.8222	0.9	1.05	0.04661	'HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976938	0.812879	0.164059	0.8222	0.92	1.05	0.04661	'HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980682	0.898006	0.0826756	0.90675	0.9	1.05	0.04741	'HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980682	0.898006	0.0826756	0.90675	0.92	1.05	0.04741	'HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.08543	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.98769	0.906372	0.0813183	0.92088	0.92	1.05	0.08543	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.9	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.97853	0.88221	0.0963194	0.90675	0.92	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_172	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.23654	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_172	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.23654	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_172	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.9	1.05	0.23654	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_172	'OKLAUNION 345KV'	0.991104	0.876221	0.114882	0.95614	0.92	1.05	0.23654	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.9	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'OKLAUNION 345KV'	0.990534	0.877982	0.112552	0.95974	0.92	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.14483	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUNION 345KV'	1.006502	0.904835	0.101667	0.95798	0.92	1.05	0.14483	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_172	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.15817	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	3	21L	G16_172	'OKLAUNION 345KV'	1.006035	0.909957	0.096078	0.9614	0.92	1.05	0.15817	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.977909	0.874351	0.103559	0.90675	0.92	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976704	0.81164	0.165064	0.8222	0.92	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976473	0.805044	0.17143	0.8222	0.92	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.975049	0.802397	0.172651	0.8222	0.92	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06882	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06882	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.9	1.05	0.06882	'HOLCOMB - SETAB 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979862	0.899665	0.0801972	0.90675	0.92	1.05	0.06882	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04115	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04115	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.9	1.05	0.04115	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.833947	0.166053	0.82646	0.92	1.05	0.04115	'HUGO - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.03913	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.03913	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.9	1.05	0.03913	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.97558	0.815643	0.159937	0.8222	0.92	1.05	0.03913	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979107	0.816432	0.162675	0.82646	0.92	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.9	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.819359	0.180641	0.82646	0.92	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979453	0.821333	0.15812	0.82646	0.9	1.05	0.15608	'KRESS INTERCHANGE - NEWHART 115KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979453	0.821333	0.15812	0.82646	0.92	1.05	0.15608	'KRESS INTERCHANGE - NEWHART 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976805	0.81098	0.165825	0.8222	0.9	1.05	0.04661	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.976805	0.81098	0.165825	0.8222	0.92	1.05	0.04661	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980617	0.897165	0.0834525	0.90675	0.9	1.05	0.04741	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980617	0.897165	0.0834525	0.90675	0.92	1.05	0.04741	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.9	1.05	0.18498	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979428	0.81842	0.161008	0.82646	0.92	1.05	0.18498	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.97925	0.821374	0.157877	0.82646	0.9	1.05	0.03325	'MANHATTAN SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.97925	0.821374	0.157877	0.82646	0.92	1.05	0.03325	'MANHATTAN SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.9	1.05	0.08422	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979316	0.835085	0.144231	0.82646	0.92	1.05	0.08422	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.9	1.05	0.10858	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.97792	0.883217	0.0947028	0.92088	0.92	1.05	0.10858	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.9	1.05	0.07524	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979085	0.897751	0.0813341	0.90675	0.92	1.05	0.07524	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.9	1.05	0.07519	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979089	0.897753	0.0813365	0.90675	0.92	1.05	0.07519	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06531	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.988892	0.915639	0.0732526	0.92088	0.92	1.05	0.06531	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.973549	0.794935	0.178614	0.8222	0.92	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.07039	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979965	0.90059	0.0793747	0.90675	0.92	1.05	0.07039	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.988788	0.915697	0.0730912	0.92088	0.92	1.05	0.06558	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.973884	0.793592	0.180292	0.8222	0.92	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.9	1.05	0.06954	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979468	0.898575	0.0808927	0.90675	0.92	1.05	0.06954	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.07392	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.987334	0.907085	0.080249	0.92088	0.92	1.05	0.07392	'MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.98162	0.900538	0.081082	0.90675	0.92	1.05	0.1951	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981681	0.900067	0.081614	0.90675	0.92	1.05	0.1951	'MOORE COUNTY INTERCHANGE W. 115KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.19309	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.988955	0.912257	0.0766981	0.92088	0.92	1.05	0.19309	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.97774	0.875078	0.102662	0.90675	0.92	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979856	0.815229	0.164628	0.82646	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979856	0.815229	0.164628	0.82646	0.92	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_172	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.9	1.05	0.20456	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	17WP	G16_172	'OKLAUNION 345KV'	0.946178	0.889597	0.0565816	0.95614	0.92	1.05	0.20456	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G16_172	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.9	1.05	0.20456	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	17WP	G16_172	'OKLAUNION 345KV'	0.946013	0.885498	0.0605144	0.95614	0.92	1.05	0.20456	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.9	1.05	0.19827	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.924076	0.840754	0.0833216	0.92088	0.92	1.05	0.19827	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.9	1.05	0.19827	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.922008	0.84084	0.081168	0.92088	0.92	1.05	0.19827	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G16_172	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.9	1.05	0.1969	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	18SP	G16_172	'OKLAUNION 345KV'	0.946782	0.893924	0.0528573	0.95974	0.92	1.05	0.1969	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G16_172	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.9	1.05	0.1969	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	18SP	G16_172	'OKLAUNION 345KV'	0.946783	0.893938	0.0528443	0.95974	0.92	1.05	0.1969	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.9	1.05	0.1951	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.916689	0.814681	0.102008	0.90675	0.92	1.05	0.1951	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	18G	G16_172	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.13576	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	18G	G16_172	'OKLAUNION 345KV'	0.958182	0.918899	0.0392824	0.98544	0.92	1.05	0.13576	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21L	G16_172	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.9	1.05	0.10671	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	2	21L	G16_172	'OKLAUNION 345KV'	0.956337	0.88633	0.0700077	0.95798	0.92	1.05	0.10671	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21SP	G16_172	'OKLAUNION 345KV'	0.952946	0.916513	0.0364331	0.98214	0.92	1.05	0.13339	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21SP	G16_172	'OKLAUNION 345KV'	0.952947	0.916475	0.0364715	0.98214	0.92	1.05	0.13339	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G16_172	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.9	1.05	0.12719	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	2	21WP	G16_172	'OKLAUNION 345KV'	0.951571	0.894921	0.0566496	0.96111	0.92	1.05	0.12719	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G16_172	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.9	1.05	0.12719	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	2	21WP	G16_172	'OKLAUNION 345KV'	0.951571	0.89492	0.0566508	0.96111	0.92	1.05	0.12719	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	18G	G16_172	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.13622	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	18G	G16_172	'OKLAUNION 345KV'	0.958288	0.919855	0.0384333	0.98611	0.92	1.05	0.13622	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G16_172	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.9	1.05	0.10718	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21L	G16_172	'OKLAUNION 345KV'	0.956855	0.890896	0.0659589	0.9614	0.92	1.05	0.10718	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21SP	G16_172	'OKLAUNION 345KV'	0.952924	0.917157	0.0357668	0.98247	0.92	1.05	0.13378	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21SP	G16_172	'OKLAUNION 345KV'	0.952923	0.917124	0.0357989	0.98247	0.92	1.05	0.13378	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	G16_172	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.9	1.05	0.12762	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	3	21WP	G16_172	'OKLAUNION 345KV'	0.952209	0.89803	0.0541791	0.96317	0.92	1.05	0.12762	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G16_172	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.9	1.05	0.12762	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	3	21WP	G16_172	'OKLAUNION 345KV'	0.952209	0.898029	0.0541806	0.96317	0.92	1.05	0.12762	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977081	0.813916	0.163165	0.8222	0.9	1.05	0.04661	'PALO DURO SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977081	0.813916	0.163165	0.8222	0.92	1.05	0.04661	'PALO DURO SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03505	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03505	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.9	1.05	0.03505	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.978901	0.82114	0.15776	0.82646	0.92	1.05	0.03505	'PITTSBURG - VALLIANT 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.0662	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.988473	0.914204	0.0742686	0.92088	0.92	1.05	0.0662	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.974604	0.799203	0.175401	0.8222	0.92	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.06801	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.06801	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.9	1.05	0.06801	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.9795	0.899597	0.0799036	0.90675	0.92	1.05	0.06801	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.9	1.05	0.0947	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNSLock	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.977662	0.843115	0.134547	0.92088	0.92	1.05	0.0947	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21L	G16_172	'OKLAUNION 345KV'	1.009207	0.908781	0.100426	0.95798	0.92	1.05	0.07916	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	2	21WP	G16_172	'OKLAUNION 345KV'	1.005411	0.919559	0.0858518	0.96111	0.92	1.05	0.09385	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.990339	0.913309	0.0770302	0.92088	0.92	1.05	0.13199	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.990339	0.913309	0.0770302	0.92088	0.92	1.05	0.13199	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980787	0.899752	0.0810347	0.90675	0.9	1.05	0.03193	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980787	0.899752	0.0810347	0.90675	0.92	1.05	0.03193	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980787	0.899752	0.0810347	0.90675	0.9	1.05	0.03193	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980787	0.899752	0.0810347	0.90675	0.92	1.05	0.03193	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.9	1.05	0.18498	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979458	0.819737	0.159721	0.82646	0.92	1.05	0.18498	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.9	1.05	0.18498	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	1	0.832924	0.167076	0.82646	0.92	1.05	0.18498	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.9	1.05	0.11021	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.980008	0.875647	0.104361	0.92088	0.92	1.05	0.11021	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.9	1.05	0.11021	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.979984	0.875364	0.10462	0.92088	0.92	1.05	0.11021	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.99073	0.919197	0.071533	0.90675	0.92	1.05	0.11101	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.19827	System Intact
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.991068	0.920877	0.0701906	0.92088	0.95	1.05	0.19827	System Intact
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.15597	System Intact
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977732	0.822204	0.155528	0.8222	0.95	1.05	0.15597	System Intact
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.1951	System Intact
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981936	0.906754	0.0751818	0.90675	0.95	1.05	0.1951	System Intact
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979428	0.826461	0.152967	0.82646	0.95	1.05	0.18498	System Intact
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.9	1.05	0.10858	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'OKLAUNION 345KV'	0.983219	0.892855	0.0903648	0.92088	0.92	1.05	0.10858	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.9	1.05	0.07514	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.97996	0.896559	0.0834011	0.90675	0.92	1.05	0.07514	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.9	1.05	0.07529	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.979946	0.896428	0.0835176	0.90675	0.92	1.05	0.07529	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.92	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980232	0.8849	0.095332	0.90675	0.92	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.92	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'OKLAUNION 345KV'	0.977863	0.804121	0.173742	0.8222	0.92	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.9	1.05	0.18498	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'OKLAUNION 345KV'	0.979639	0.833426	0.146213	0.82646	0.92	1.05	0.18498	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.13432	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.13432	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.13432	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.981408	0.900403	0.0810054	0.90675	0.92	1.05	0.13432	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980323	0.90143	0.0788932	0.90675	0.92	1.05	0.1951	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_172	'OKLAUNION 345KV'	0.980313	0.901231	0.0790821	0.90675	0.92	1.05	0.1951	'TUCO INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.19226	System Intact
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 230KV'	0.988591	0.940005	0.0485861	0.94	0.95	1.05	0.19226	System Intact
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 230KV'	0.999107	0.920025	0.0790821	0.92003	0.95	1.05	0.19013	System Intact
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.976353	0.891233	0.0851195	0.91598	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	1	0.888072	0.111928	0.88217	0.9	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.978173	0.899788	0.0783843	0.91598	0.9	1.05	0.03109	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.976707	0.895245	0.0814623	0.91598	0.9	1.05	0.09582	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.976783	0.894322	0.0824615	0.91598	0.9	1.05	0.09582	'BUSHLAND INTERCHANGE 230KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.98763	0.874154	0.113476	0.88217	0.9	1.05	0.08928	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	1	0.891394	0.108606	0.88217	0.9	1.05	0.08928	'CLARKCOUNTY7345.00 345KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.98772	0.87598	0.11174	0.88217	0.9	1.05	0.05631	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.976402	0.896065	0.0803373	0.91598	0.9	1.05	0.05903	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	1	0.890089	0.109911	0.88217	0.9	1.05	0.15508	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.987702	0.875053	0.112649	0.88217	0.9	1.05	0.08928	'CURRY COUNTY INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.98753	0.873304	0.114226	0.88217	0.9	1.05	0.08928	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.984866	0.888783	0.096083	0.8984	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.978239	0.895983	0.0822566	0.91598	0.9	1.05	0.05508	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.97696	0.893675	0.0832849	0.91598	0.9	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.978413	0.890377	0.0880352	0.91598	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983541	0.892308	0.091233	0.8984	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983428	0.888283	0.0951456	0.8984	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983981	0.890938	0.0930426	0.8984	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.987666	0.873533	0.114132	0.88217	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	1	0.873377	0.126623	0.88217	0.9	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.987624	0.876559	0.111066	0.88217	0.9	1.05	0.15608	'KRESS INTERCHANGE - NEWHART 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983794	0.892739	0.0910549	0.8984	0.9	1.05	0.04661	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.873885	0.113808	0.88217	0.9	1.05	0.08928	'MAJESTIC WIND 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.987989	0.890881	0.0971085	0.88217	0.9	1.05	0.08422	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.984351	0.890191	0.0941604	0.8984	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983824	0.887861	0.0959628	0.8984	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.976983	0.887273	0.0897102	0.91598	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.98725	0.869354	0.117895	0.88217	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.977311	0.890959	0.0863523	0.91598	0.9	1.05	0.09582	'OKLAUN HVDC7345.00 345KV SWITCHED SHUNT'
FDNSLock	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.987505	0.87501	0.112495	0.88217	0.9	1.05	0.04261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983915	0.889376	0.0945387	0.8984	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.965518	0.875183	0.0903352	0.91598	0.9	1.05	0.13873	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.965518	0.875183	0.0903352	0.91598	0.9	1.05	0.13873	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.987718	0.875335	0.112383	0.88217	0.9	1.05	0.08928	'ROOSEVELT COUNTY REC-PORTALES INTERCHANGE 69KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	1	0.887851	0.112149	0.88217	0.9	1.05	0.08928	'SEMINOLE GAS 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.07842	System Intact
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983989	0.898396	0.0855923	0.8984	0.95	1.05	0.07842	System Intact
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.09582	System Intact
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.978837	0.915982	0.0628554	0.91598	0.95	1.05	0.09582	System Intact
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.987692	0.882171	0.105522	0.88217	0.95	1.05	0.08928	System Intact
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.978713	0.886244	0.0924695	0.91598	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.978713	0.886244	0.0924695	0.91598	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983851	0.887131	0.0967205	0.8984	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.983851	0.887131	0.0967205	0.8984	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'POTTER COUNTY INTERCHANGE 345KV'	0.98811	0.888961	0.0991488	0.88217	0.9	1.05	0.08928	'TOLK STATION TFMR TERTIARY 13KV SWITCHED SHUNT'
FDNS	06ALL	0	21WP	G16_172	'RANDALL COUNTY INTERCHANGE 230KV'	1.001004	0.938957	0.0620475	0.93896	0.95	1.05	0.04861	System Intact
FDNSLock	06ALL	2	18SP	G16_172	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'ROARK6 230.00 230KV'	1.020224	1.080051	0.0598267	1.02	0.92	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'ROBERTS COUNTY TAP 69KV'	1.019254	1.056662	0.0374085	1.02375	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.08294	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 115KV'	0.990055	0.912374	0.0776806	0.91779	0.92	1.05	0.08294	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.9	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 115KV'	0.953607	0.873704	0.0799028	0.95684	0.92	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 115KV'	0.989482	0.91903	0.0704518	0.94503	0.92	1.05	0.09381	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 115KV'	0.991221	0.912006	0.0792154	0.91779	0.92	1.05	0.05631	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 115KV'	0.991273	0.912663	0.07861	0.91779	0.92	1.05	0.05631	'G15066_T 345.00 - SOONER 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 115KV'	0.989353	0.912742	0.076611	0.91779	0.92	1.05	0.10674	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 115KV'	0.989352	0.912741	0.0766112	0.91779	0.92	1.05	0.10674	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 115KV'	0.988367	0.910602	0.077765	0.91779	0.92	1.05	0.04869	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.0933	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 115KV'	1	0.919853	0.0801467	0.95684	0.92	1.05	0.0933	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 115KV'	0.989856	0.918476	0.07138	0.94503	0.92	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'SHAMROCK 115KV'	0.978742	0.903583	0.0751592	0.97238	0.92	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 115KV'	0.990367	0.916864	0.0735025	0.94503	0.92	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 115KV'	0.991653	0.911222	0.0804307	0.91779	0.92	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 115KV'	1	0.911987	0.0880125	0.91779	0.92	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'SHAMROCK 115KV'	0.991685	0.912238	0.079447	0.91779	0.92	1.05	0.15608	'KRESS INTERCHANGE - NEWHART 115KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'SHAMROCK 115KV'	0.991717	0.905061	0.0866559	0.91779	0.92	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'SHAMROCK 115KV'	0.990916	0.909909	0.0810071	0.91779	0.92	1.05	0.04261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 115KV'	0.975588	0.910931	0.0646564	0.95684	0.92	1.05	0.11021	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 115KV'	0.974107	0.911925	0.062182	0.95684	0.92	1.05	0.11021	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.9	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 138KV'	0.973572	0.899847	0.0737244	0.98078	0.92	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	1	0.915479	0.0845211	0.90842	0.92	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.08294	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	0.969165	0.903343	0.0658212	0.90842	0.92	1.05	0.08294	'BADGER 345.00 - BVRCNTY7 345.00 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.95464	0.915326	0.0393143	0.9309	0.92	1.05	0.03109	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.972962	0.912699	0.060263	0.9309	0.92	1.05	0.09952	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.953587	0.919037	0.0345504	0.9309	0.92	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.964962	0.908186	0.0567757	0.9309	0.92	1.05	0.04599	'CHISHOLM6 230.00 - ELK CITY 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_172	'SHAMROCK 69KV'	0.967834	0.914151	0.053683	0.96076	0.92	1.05	0.11441	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.9	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 69KV'	0.935544	0.857635	0.0779092	0.94142	0.92	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.971364	0.905931	0.0654329	0.9309	0.92	1.05	0.09381	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	0.9702	0.902855	0.0673447	0.90842	0.92	1.05	0.05631	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.954453	0.918686	0.0357667	0.9309	0.92	1.05	0.05903	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	1	0.916379	0.0836212	0.90842	0.92	1.05	0.15508	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04599	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.965145	0.908408	0.0567365	0.9309	0.92	1.05	0.04599	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.972073	0.913508	0.0585645	0.9309	0.92	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.953483	0.915549	0.0379336	0.9309	0.92	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.97221	0.912887	0.0593234	0.9309	0.92	1.05	0.09381	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.955257	0.910689	0.0445682	0.9309	0.92	1.05	0.05508	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	0.9685	0.903615	0.0648848	0.90842	0.92	1.05	0.10674	'GEN515223 1-MUSKOGEE 4G'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	0.9685	0.903615	0.0648851	0.90842	0.92	1.05	0.10674	'GEN515225 1-MUSKOGEE 5G'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	0.967541	0.901347	0.0661935	0.90842	0.92	1.05	0.04869	'GEN520947 1-HUGO1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.0933	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 69KV'	1	0.90884	0.0911602	0.94142	0.92	1.05	0.0933	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.972097	0.906409	0.0656882	0.9309	0.92	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	17WP	G16_172	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.23654	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	17WP	G16_172	'SHAMROCK 69KV'	0.968371	0.91917	0.049201	0.96076	0.92	1.05	0.23654	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.9	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'SHAMROCK 69KV'	0.960855	0.892254	0.0686008	0.95493	0.92	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.972539	0.904676	0.067863	0.9309	0.92	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	0.970611	0.902157	0.0684541	0.90842	0.92	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	1	0.902947	0.0970531	0.90842	0.92	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	0.970644	0.903323	0.0673218	0.90842	0.92	1.05	0.15608	'KRESS INTERCHANGE - NEWHART 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	0.970354	0.916817	0.0535374	0.90842	0.92	1.05	0.08422	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 69KV'	0.955735	0.917017	0.0387179	0.94142	0.92	1.05	0.10858	'MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.957871	0.913092	0.0447791	0.9309	0.92	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	0.970674	0.896738	0.0739357	0.90842	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	0.970674	0.896738	0.0739357	0.90842	0.92	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'SHAMROCK 69KV'	0.96995	0.901214	0.0687357	0.90842	0.92	1.05	0.04261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	18G	G16_172	'SHAMROCK 69KV'	0.972404	0.918616	0.0537882	0.94142	0.92	1.05	0.0947	'POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1'

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.9	1.05	0.11021	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 69KV'	0.956806	0.896055	0.0607513	0.94142	0.92	1.05	0.11021	'STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.9	1.05	0.11021	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 69KV'	0.955513	0.89688	0.0586327	0.94142	0.92	1.05	0.11021	'STLN-DEMARC6 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	18G	G16_172	'SHAMROCK 69KV'	0.961202	0.917197	0.0440053	0.94142	0.92	1.05	0.10858	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.954056	0.912626	0.0414308	0.9309	0.92	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SHAMROCK 69KV'	0.954056	0.912626	0.0414308	0.9309	0.92	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SPEARMAN INTERCHANGE 115KV'	0.995632	0.945253	0.050379	0.94525	0.95	1.05	0.03036	System Intact
FDNS	06ALL	0	21SP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.982593	0.897976	0.0846166	0.92273	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SPNSPUR_WND7345.00 345KV'	1	0.895314	0.104686	0.88941	0.9	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.992226	0.883218	0.109008	0.88941	0.9	1.05	0.05631	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SPNSPUR_WND7345.00 345KV'	1	0.897333	0.102667	0.88941	0.9	1.05	0.15508	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'SPNSPUR_WND7345.00 345KV'	0.989488	0.897723	0.0917648	0.90737	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.984341	0.897121	0.0872204	0.92273	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'SPNSPUR_WND7345.00 345KV'	0.988267	0.897221	0.091046	0.90737	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'SPNSPUR_WND7345.00 345KV'	0.988736	0.899886	0.0888499	0.90737	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.99218	0.880769	0.11141	0.88941	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SPNSPUR_WND7345.00 345KV'	1	0.880613	0.119387	0.88941	0.9	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.992144	0.883795	0.108349	0.88941	0.9	1.05	0.15608	'KRESS INTERCHANGE - NEWHART 115KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.992454	0.898125	0.0943297	0.88941	0.9	1.05	0.08422	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'SPNSPUR_WND7345.00 345KV'	0.989051	0.899136	0.0899147	0.90737	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'SPNSPUR_WND7345.00 345KV'	0.988603	0.896797	0.091805	0.90737	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.983128	0.894015	0.0891131	0.92273	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.991826	0.876587	0.115239	0.88941	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.992043	0.882246	0.109797	0.88941	0.9	1.05	0.04261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'SPNSPUR_WND7345.00 345KV'	0.98868	0.898318	0.0903616	0.90737	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.972278	0.881922	0.0903562	0.92273	0.9	1.05	0.13873	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.972278	0.881922	0.0903562	0.92273	0.9	1.05	0.13873	'POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.984596	0.892986	0.0916106	0.92273	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'SPNSPUR_WND7345.00 345KV'	0.984596	0.892986	0.0916106	0.92273	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'SPNSPUR_WND7345.00 345KV'	0.988626	0.896065	0.0925612	0.90737	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'SPNSPUR_WND7345.00 345KV'	0.988626	0.896065	0.0925612	0.90737	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'STATELINE INTERCHANGE 115KV'	1.021039	1.075547	0.0545086	1.02261	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'STATELINE INTERCHANGE 230KV'	1.021124	1.069772	0.048648	1.01641	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.07286	System Intact
FDNS	06ALL	0	21L	G16_172	'STATELINE INTERCHANGE 230KV'	0.99405	0.949323	0.0447277	0.94932	0.95	1.05	0.07286	System Intact
FDNS	06ALL	0	21WP	G16_172	'STATELINE INTERCHANGE 230KV'	0.999138	0.921867	0.0772707	0.92187	0.95	1.05	0.08756	System Intact
FDNSLock	06ALL	2	18SP	G16_172	'STLN-DEMARC6 230KV'	1.020763	1.077596	0.0568331	1.01717	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'STLN-DEMARC6 230KV'	1.003486	0.940168	0.0633178	0.94017	0.95	1.05	0.10344	System Intact
FDNSLock	06ALL	2	18SP	G16_172	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.9	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNSLock	06ALL	2	18SP	G16_172	'SWEETWATER 230KV'	1.020581	1.080356	0.0597756	1.01723	0.92	1.05	0.07151	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'SWEETWATER 230KV'	1.005199	0.94769	0.0575091	0.94769	0.95	1.05	0.10344	System Intact
FDNS	06ALL	0	21WP	G16_172	'SWISHER COUNTY INTERCHANGE 230KV'	1.012937	0.937979	0.0749583	0.93798	0.95	1.05	0.21259	System Intact
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 230KV'	0.998884	0.916269	0.0826147	0.93709	0.925	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 230KV'	0.998884	0.916269	0.0826147	0.93709	0.925	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'TUCO INTERCHANGE 345KV'	0.986669	0.896838	0.0898305	0.90252	0.9	1.05	0.12986	'CARLISLE INTERCHANGE 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.986994	0.898432	0.088562	0.89054	0.9	1.05	0.12697	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21WP	G16_172	'TUCO INTERCHANGE 345KV'	0.987166	0.897297	0.0898693	0.90252	0.9	1.05	0.12986	'EAST LIBERAL 115KV SWITCHED SHUNT'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.980216	0.876868	0.103349	0.89054	0.9	1.05	0.07129	'G16-003-TAP 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.980992	0.88534	0.095652	0.89054	0.9	1.05	0.06369	'Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.980868	0.881642	0.099226	0.89054	0.9	1.05	0.07322	'Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.980518	0.881673	0.0988449	0.89054	0.9	1.05	0.0564	'HOLCOMB - SETAB 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'TUCO INTERCHANGE 345KV'	0.987174	0.897474	0.0896999	0.90252	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.980978	0.884795	0.0961837	0.89054	0.9	1.05	0.04661	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.980032	0.878261	0.101771	0.89054	0.9	1.05	0.05967	'MINGO - RED WILLOW 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.98007	0.87691	0.10316	0.89054	0.9	1.05	0.05817	'MINGO - SETAB 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'TUCO INTERCHANGE 345KV'	0.987771	0.895011	0.0927593	0.90252	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.980444	0.88015	0.100294	0.89054	0.9	1.05	0.05531	'POST ROCK - SPEARVILLE 345KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.981518	0.890541	0.0909774	0.89054	0.95	1.05	0.11676	System Intact

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	MONITORED ELEMENT	BC Voltage (PU)	TC Voltage (PU)	Voltage Differ (PU)	VINIT (PU)	VMIN (PU)	VMAX(PU)	TDF	CONTINGENCY
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.981518	0.890541	0.0909774	0.89054	0.95	1.05	0.11676	System Intact
FDNS	06ALL	0	21WP	G16_172	'TUCO INTERCHANGE 345KV'	0.987203	0.902522	0.0846803	0.90252	0.95	1.05	0.12986	System Intact
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.981181	0.872153	0.109028	0.89054	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'TUCO INTERCHANGE 345KV'	0.981181	0.872153	0.109028	0.89054	0.9	1.05	0.03274	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21L	G16_172	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.10457	System Intact
FDNS	06ALL	0	21L	G16_172	'WALKEMEYER 7345.00 345KV'	1.005839	0.925723	0.0801159	0.92572	0.95	1.05	0.10457	System Intact
FDNS	06ALL	0	21WP	G16_172	'WALKEMEYER 7345.00 345KV'	1.007796	0.942456	0.0653399	0.94246	0.95	1.05	0.12649	System Intact
FDNS	06ALL	0	18G	G16_172	'WELLINGTON 138KV'	0.974511	0.90498	0.0695304	0.98387	0.92	1.05	0.11021	'CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956365	0.868911	0.087454	0.88972	0.9	1.05	0.12254	'AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'XIT_INTG 6230.00 230KV'	1	0.893351	0.106649	0.88805	0.9	1.05	0.08106	'ARCADIA - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.95668	0.872255	0.0844254	0.88972	0.9	1.05	0.03109	'BORDER 7345.00 - CHISHOLM7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.08273	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.959633	0.883308	0.0763254	0.88972	0.9	1.05	0.08273	'BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.07534	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956376	0.88327	0.0731058	0.88972	0.9	1.05	0.07534	'BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.957466	0.87909	0.0783766	0.88972	0.9	1.05	0.09952	'BVRCNTY7 345.00 - CLARKCOUNTY7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956513	0.880845	0.0756685	0.88972	0.9	1.05	0.13678	'BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.95559	0.882665	0.0729249	0.88972	0.9	1.05	0.04599	'CHISHOLM6 230.00 - ELK CITY 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.955598	0.874507	0.0810914	0.88972	0.9	1.05	0.09381	'CHISHOLM7 345.00 - G16-037-TAP 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.954336	0.873399	0.080937	0.88972	0.9	1.05	0.13028	'CIMARRON - MINCO 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'XIT_INTG 6230.00 230KV'	0.989832	0.882469	0.107363	0.88805	0.9	1.05	0.05631	'CLEVELAND - G15066_T 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.955954	0.873539	0.0824149	0.88972	0.9	1.05	0.05903	'CRAWFISH_DR 345.00 - TOLK STATION 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'XIT_INTG 6230.00 230KV'	1	0.894915	0.105085	0.88805	0.9	1.05	0.15508	'CRAWFISH_DR 345.00 - TUCO INTERCHANGE 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04599	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.955599	0.882803	0.0727955	0.88972	0.9	1.05	0.04599	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.957415	0.877042	0.0803725	0.88972	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.95693	0.878509	0.0784206	0.88972	0.9	1.05	0.11254	'FINNEY SWITCHING STATION - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.955246	0.877048	0.0781975	0.88972	0.9	1.05	0.09381	'G16-037-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956451	0.881292	0.0751584	0.88972	0.9	1.05	0.05508	'G16-091-TAP 345.00 - GRACEMONT 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.95642	0.868502	0.0879176	0.88972	0.9	1.05	0.05508	'G16-091-TAP 345.00 - LAWTON EASTSIDE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.955979	0.884514	0.0714648	0.88972	0.9	1.05	0.03795	'GEN542962 2-IATAN UNIT #2'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.955566	0.884194	0.071372	0.88972	0.9	1.05	0.07039	'GEN640011 2-GERALD GENTLEMAN STATION UNIT 2'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.955134	0.874023	0.0811113	0.88972	0.9	1.05	0.13028	'GRACEMONT - MINCO 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956775	0.879914	0.0768608	0.88972	0.9	1.05	0.04741	'HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956191	0.884566	0.0716253	0.88972	0.9	1.05	0.03594	'HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956191	0.884566	0.0716253	0.88972	0.9	1.05	0.03594	'HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956672	0.870278	0.0863944	0.88972	0.9	1.05	0.08879	'HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	18SP	G16_172	'XIT_INTG 6230.00 230KV'	0.959728	0.863529	0.0961992	0.95609	0.9	1.05	0.23798	'Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956676	0.858011	0.0986656	0.88972	0.9	1.05	0.13337	'Hitchland Interchange - WALKEMEYER 7345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'XIT_INTG 6230.00 230KV'	0.989785	0.880315	0.10947	0.88805	0.9	1.05	0.04404	'JOHNSON COUNTY - PITTSBURG 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'XIT_INTG 6230.00 230KV'	1	0.880141	0.119859	0.88805	0.9	1.05	0.04564	'JOHNSON COUNTY - SUNNYSIDE 345KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'XIT_INTG 6230.00 230KV'	0.989736	0.88302	0.106716	0.88805	0.9	1.05	0.15608	'KRESS INTERCHANGE - NEWHART 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956765	0.878649	0.0781164	0.88972	0.9	1.05	0.04741	'KRESS INTERCHANGE - TULIA TAP 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.955292	0.873096	0.0821962	0.88972	0.9	1.05	0.11101	'LAWTON EASTSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21WP	G16_172	'XIT_INTG 6230.00 230KV'	0.990057	0.895858	0.0941991	0.88805	0.9	1.05	0.08422	'MATHWSN7 345.00 - NORTHWEST 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.957742	0.865479	0.0922633	0.88972	0.9	1.05	0.19226	'NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'XIT_INTG 6230.00 230KV'	0.989179	0.876551	0.112629	0.88805	0.9	1.05	0.21259	'NEWHART 230 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
FDNSLock	06ALL	0	21WP	G16_172	'XIT_INTG 6230.00 230KV'	0.989529	0.881441	0.108088	0.88805	0.9	1.05	0.04261	'PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.955255	0.880359	0.0748964	0.88972	0.9	1.05	0.03193	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.955255	0.880359	0.0748964	0.88972	0.9	1.05	0.03193	'PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.954897	0.874378	0.0805191	0.88972	0.9	1.05	0.11101	'SUNNYSIDE - TERRYRD7 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956892	0.881898	0.0749943	0.88972	0.9	1.05	0.07514	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956884	0.88173	0.0751533	0.88972	0.9	1.05	0.07529	'TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.954792	0.858261	0.0965316	0.88972	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.954792	0.858261	0.0965316	0.88972	0.9	1.05	0.14968	'TOLK STATION (ABBXNL844501) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.03164	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956587	0.879243	0.0773441	0.88972	0.9	1.05	0.03164	'TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.13432	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.13432	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.13432	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'
FDNS	06ALL	0	21SP	G16_172	'XIT_INTG 6230.00 230KV'	0.956294	0.881167	0.0751265	0.88972	0.9	1.05	0.13432	'TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2'

H-T: THERMAL POWER FLOW ANALYSIS (OTHER CONSTRAINTS NOT REQUIRING TRANSMISSION REINFORCEMENT)

Available upon request

H-T-AS: AFFECTED SYSTEM THERMAL POWER FLOW ANALYSIS (CONSTRAINTS FOR POTENTIAL UPGRADES)

Available upon request

H-V-AS: AFFECTED SYSTEM VOLTAGE POWER FLOW ANALYSIS (CONSTRAINTS FOR POTENTIAL UPGRADES)

Available upon request

I: DYNAMIC STABILITY ANALYSIS REPORTS

I: GROUP 6 DYNAMIC STABILITY ANALYSIS REPORT

MITSUBISHI ELECTRIC POWER PRODUCTS, INC.
POWER SYSTEMS ENGINEERING DIVISION
530 KEYSTONE DRIVE
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Southwest Power Pool, Inc. (SPP)

DISIS-2016-002-1 (Group 06) Definitive Impact Study

Final Report

REP-0518
Revision #01

April 2019

Submitted By:
Mitsubishi Electric Power Products, Inc. (MEPPI)
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Report Revision Table

Revision	Reason for Revision	Date	Author
1	Issued Final Report	4/26/2019	NWT

Title: **DISIS-2016-002-1 (Group 06) Definitive Impact Study: Final Report REP-0518**
Date: April 2019
Author: Nicholas W. Tenza; Senior Engineer, Power Systems Engineering Division *Nicholas W. Tenza*
Approved: Donald J. Shoup; General Manager, Power Systems Engineering Division *Donald J. Shoup*

EXECUTIVE SUMMARY

SPP requested a Definitive Interconnection System Impact Study (DISIS). The DISIS required a Stability Analysis and a Short Circuit Analysis detailing the impacts of the interconnecting projects as shown in Table ES-1.

Table ES-1
Interconnection Projects Evaluated

Request	Size (MW)	Generator Model	Point of Interconnection
ASGI-2016-009	3	Wind (588472)	Wolfforth Substation 115kV (526481)
GEN-2015-099	73.26	Solar (587673)	Maddox 115kV (528355)
GEN-2016-121	110	Solar (587993)	Roadrunner 115kV (528025)
GEN-2016-123	298	Wind (588003, 588006)	Crossroads 345kV (527656)
GEN-2016-124	150	Wind (588013)	Crossroads 345kV (527656)
GEN-2016-125	74	Wind (588023)	Crossroads 345kV (527656)
GEN-2016-171	60.8	Solar (588353)	Tap Hobbs –Yoakum 230kV Line (560059)
GEN-2016-172	229.95	Wind (588443, 588446)	Newhart 115kV (525460)
GEN-2016-177	17	Gas Turbine (588461)	Tap Ink Basin – Denver City 115kV (588462)

SUMMARY OF STABILITY ANALYSIS

The Stability Analysis determined that there were multiple contingencies across all seasons that resulted in system/voltage instability, generation tripping offline, and poor post-fault voltage recovery when all generation interconnection requests were at 100% output. To mitigate the system/voltage instability, voltage violations, generation tripping offline, and poor post-fault steady-state voltages, the following upgrades were provided by SPP and implemented (upgrades provided here are required for 17W season and thus, implemented in remaining years):

- Hobbs to Yoakum to Tuco 345 kV circuit #1 (advancement in 17W and 18S)
- Yoakum 345/230 kV transformer #1 (advancement in 17W and 18S)
- Beaver to Clark County 345 kV circuit #1 (previously assigned)
- Border 345 kV 50 MVAR capacitor bank
- Crawfish Draw 345 kV 200 MVAR capacitor bank & +225/-150 MVAR SVC
- Crossroads 345 kV 200 MVAR capacitor bank
- Oklaunion 345 kV 130 MVAR capacitor bank & +300/-150 MVAR SVC
- Potter County 345 kV 100 MVAR capacitor bank
- Crawfish Draw to Lawton Eastside 345 kV circuit #1
- Chisholm to Potter County 345 kV circuit #1

After implementing the above upgrades, the contingency analysis was re-simulated for all contingencies. With the upgrades, the Stability Analysis determined that there was no wind turbine tripping or system instability observed as a result of interconnecting all study projects at 100% output.

SUMMARY OF THE SHORT CIRCUIT ANALYSIS

The short circuit analysis was performed on the 2018 Summer Peak and 2026 Summer Peak power flows for all study projects. Refer to Table ES-2 and Table ES-3 for a list of maximum fault currents observed for each study project for the 18S and 26S cases, respectively.

Table ES-2
2018SP: List of Maximum Fault Currents Observed for Each Study Project

Study Project	Fault Current at POI (kA)	Maximum Fault Current (kA)	Fault Location
ASGI-2016-009	11.19	30.76	Tolk 230 kV
GEN-2015-099	24.45	28.88	Hobbs 115 kV
GEN-2016-121	9.28	28.88	Hobbs 115 kV
GEN-2016-123	9.23	30.76	Tolk 230 kV
GEN-2016-124	9.23	30.76	Tolk 230 kV
GEN-2016-125	9.23	30.76	Tolk 230 kV
GEN-2016-171	9.14	30.76	Tolk 230 kV
GEN-2016-172	16.84	31.27	Nichols 115 kV
GEN-2016-177	9.17	28.88	Hobbs 115 kV

Table ES-3
2026SP: List of Maximum Fault Currents Observed for Each Study Project

Study Project	Fault Current at POI (kA)	Maximum Fault Current (kA)	Fault Location
ASGI-2016-009	11.30	30.09	Tolk 230 kV
GEN-2015-099	24.96	29.89	Hobbs 115 kV
GEN-2016-121	9.38	29.89	Hobbs 115 kV
GEN-2016-123	9.17	30.09	Tolk 230 kV
GEN-2016-124	9.17	30.09	Tolk 230 kV
GEN-2016-125	9.17	30.09	Tolk 230 kV
GEN-2016-171	8.85	30.09	Tolk 230 kV
GEN-2016-172	16.84	31.27	Nichols 115 kV
GEN-2016-177	9.20	29.89	Hobbs 115 kV

Table of Contents

SECTION 1: OBJECTIVES

The objective of this report is to provide Southwest Power Pool, Inc. (SPP) with the deliverables for the "DISIS-2016-002-1 (Group 06) Definitive Impact Study." SPP requested an Interconnection System Impact Study for nine (9) generation interconnections for 2017 Winter Peak, 2018 Summer Peak, and 2026 Summer Peak, which requires a Stability Analysis, Short Circuit Analysis, and an Impact Study Report.

SECTION 2: BACKGROUND

The Siemens Power Technologies International PSS/E power system simulation program Version 33.10.0 was used for this study. SPP provided the stability database cases for 2017 Winter Peak, 2018 Summer Peak, and 2026 Summer Peak conditions and a list of contingencies to be examined. The model includes the study projects shown in Table 2-1 and the previously queued projects listed in Table 2-2. Refer to Appendix A for the steady-state and dynamic model data for the study projects. A power flow one-line diagram for each generation interconnection project is shown in Figures 2-1 through 2-7. Note that the one-line diagrams represent the 2017 Winter Peak case.

The Stability Analysis determined the impacts of the new interconnecting projects on the stability and voltage recovery of the nearby system and the ability of the interconnecting projects to meet FERC Order 661A. If problems with stability or voltage recovery are identified, the need for reactive compensation or system upgrades were investigated. Three-phase faults and single line-to-ground faults were examined as listed in Table 2-3.

A Short Circuit Analysis was performed on the 2018 Summer Peak and 2026 Summer Peak study years for each study generator. The study was performed five buses out from the study generator's point of interconnection and results were documented.

Table 2-1
Interconnection Projects Evaluated

Request	Size (MW)	Generator Model	Point of Interconnection
ASGI-2016-009	3	Wind (588472)	Wolfforth Substation 115kV (526481)
GEN-2015-099	73.26	Solar (587673)	Maddox 115kV (528355)
GEN-2016-121	110	Solar (587993)	Roadrunner 115kV (528025)
GEN-2016-123	298	Wind (588003, 588006)	Crossroads 345kV (527656)
GEN-2016-124	150	Wind (588013)	Crossroads 345kV (527656)
GEN-2016-125	74	Wind (588023)	Crossroads 345kV (527656)
GEN-2016-171	60.8	Solar (588353)	Tap Hobbs –Yoakum 230kV Line (560059)
GEN-2016-172	229.95	Wind (588443, 588446)	Newhart 115kV (525460)
GEN-2016-177	14/17 SP/WP	Gas Turbine (588461)	Tap Ink Basin – Denver City 115kV (588462)

Table 2-2
Previously Queued Nearby Interconnection Projects Included

Request	Size (MW)	Generator Model	Point of Interconnection
Hopi	10	Solar 1.0MW	Hopi 115kV (528226)
Jal	10	Solar 1.0MW	S Jal 115kV (528547)
Lea Road	10	Solar 1.0MW	Lea Road 115kV (528505)
Monument	10	Solar 1.0MW	Monument 115kV (528491)
Ocotillo	10	Solar 1.0MW	S_Jal 115kV (528132)
Yuma	0.9	SNL 0.9MW	SP-Yuma 69kV (526469)
Sunray	49.5	GE 1.5MW	Valero 115kV (523277)
GEN-2001-033	180	Mitsubishi MHI 1000A 1.0MW	San Juan Tap 230kV (524885)
GEN-2001-036	80	Mitsubishi MHI 1000A 1.0MW	Norton 115kV (524502)
GEN-2006-018	168.135	Wartsila 9.34MW	Tuco Interchange 230kV (525830)
GEN-2006-026	502	Thermal 144/145/213MW	Hobbs 115kV (527891) Hobbs 230kV (527894)
GEN-2008-022	300	Vestas V100 VCSS 2.0MW	Crossroads 345kV (527656)
GEN-2010-006	205	Thermal 205MW	Jones 230kV(526337)
ASGI-2010-010	33	Wartsila 20V34SG 8.4392MW	Lovington 115kV (528334)
ASGI-2010-020	29.9	Nordex N100 2.3MW	Tap LE-Tatum to LE-Crossroads 69kV (560360)
ASGI-2010-021	15	Mitsubishi MPS-1000A 1.0MW	Tap LE-Saundrtp to LE-Anderson 69kV (560364)
ASGI-2011-001	27.3	Suzlon S97 2.1MW	Lovington 115kV (528334)
ASGI-2011-003	10	Sany 2.0MW	Hendricks 69kV (525943)
ASGI-2011-004	19.8	Sany 93m/100m 1.8MW	Pleasant Hill 69kV (525915)
GEN-2011-025	78.76	GE 100m 1.79MW	Tap Floyd County - Crosby County 115kV (562004)
GEN-2011-045	205	Thermal 205MW	Jones 230kV (526337)
GEN-2011-046	27	Thermal 27MW	Lopez 115kV (524472)
GEN-2011-048/ GEN-2012-036	172/182	Thermal 182MW	Mustang 230kV (527151)
GEN-2012-001	61.2	CCWE 3.6MW	Cirrus Tap 230kV (526679)

Request	Size (MW)	Generator Model	Point of Interconnection
ASGI-2012-002/ASGI-2013-005	19.8	Vestas V82 1.65MW	FE-Clovis Interchange 115kV (524808)
GEN-2012-020	477.12	GE 1.68MW	Tuco 230kV (525830)
GEN-2012-034	7 MW increase (Pgen=157MW)	Thermal 157MW	Mustang 230kV (527151)
GEN-2012-035	7 MW increase (Pgen=157MW)	Thermal 157MW	Mustang 230kV (527151)
GEN-2012-037	196/203	GE 7FA Gas CT 203MW	Tuco 345kV (525832)
GEN-2013-016/GEN-2015-041	196/208	GE 7FA Gas CT 208MW	Tuco 345kV (525832)
ASGI-2013-002	18.4	Siemens VS 2.3MW	FE Tucumcari 115kV (524509)
ASGI-2013-003	18.4	Siemens VS 2.3MW	FE Clovis 115kV (524808)
GEN-2013-022	24.2	SMA SC-2200-US 2.2MW	Norton 115kV (524486)
GEN-2013-027	148.35	Vestas V126 GS 3.45MW	Tap Tolk - Yoakum 230kV (562480)
GEN-2014-033	70	GE LV5 0.95MW, Schneider XC 680 0.64MW	Chaves County 115kV (527482)
GEN-2014-034	70	GE LV5 3.89MW	Chaves County 115kV (527482)
GEN-2014-035	30	GE LV5 3.75MW	Chaves County 115kV (527482)
GEN-2014-040	319.7	GE 2.3MW	Castro 115kV (524746)
ASGI-2015-002/ASGI-2016-002	2.65	GE 2.65MW	SP-Yuma 69kV (526469)
GEN-2015-014	150	Vestas V110 VCSS 2.0MW	Tap Cochran - Lehman 115kV (560030)
GEN-2015-020	99.96	Eaton Power Xpert Solar 1.67MW	Oasis 115kV (524874)
GEN-2015-056	101.2	GE 2.3MW	Crossroads 345kV (527656) (Tap Eddy (527802) to Tolk(525549)
ASGI-2016-004	10	3 x Alstom 3.2MW/4 x Renewtech 100kW	Palo Duro 115kV (524530)
GEN-2016-015	100	TMEIC Solarware Samurai 1833GRQ 1.67MW	Andrews 345kV (528604)

Request	Size (MW)	Generator Model	Point of Interconnection
GEN-2016-056	200	GE 2.0MW (wind)	Carlisle 230 kV (526161)
GEN-2016-062	250.7	GE 2.3MW (wind)	Andrews 345kV (528604)
GEN-2016-069	31.35	GE LV5 0.95MW	Chaves County 115kV (527482)

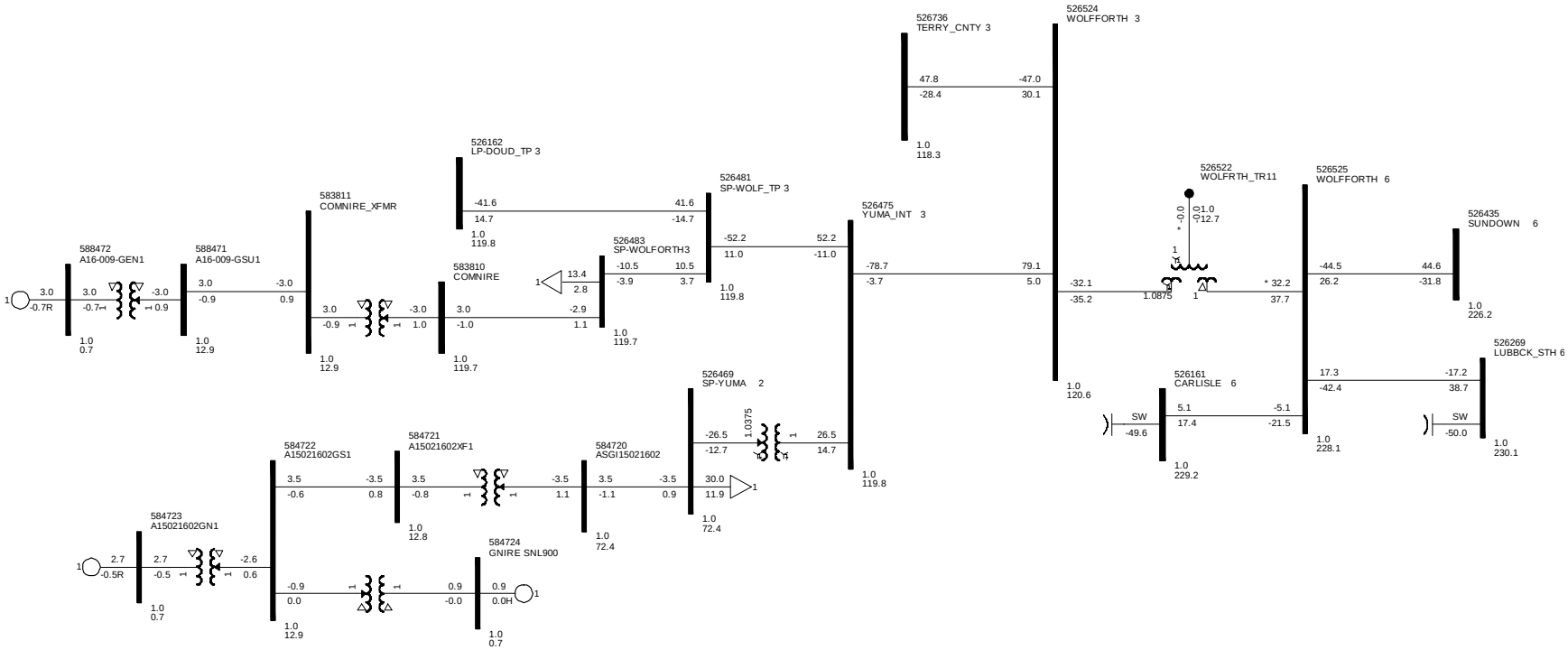

Figure 2-1. Power flow one-line diagram for interconnection project at the Wolfforth Substation 115 kV (ASGI-2016-009).

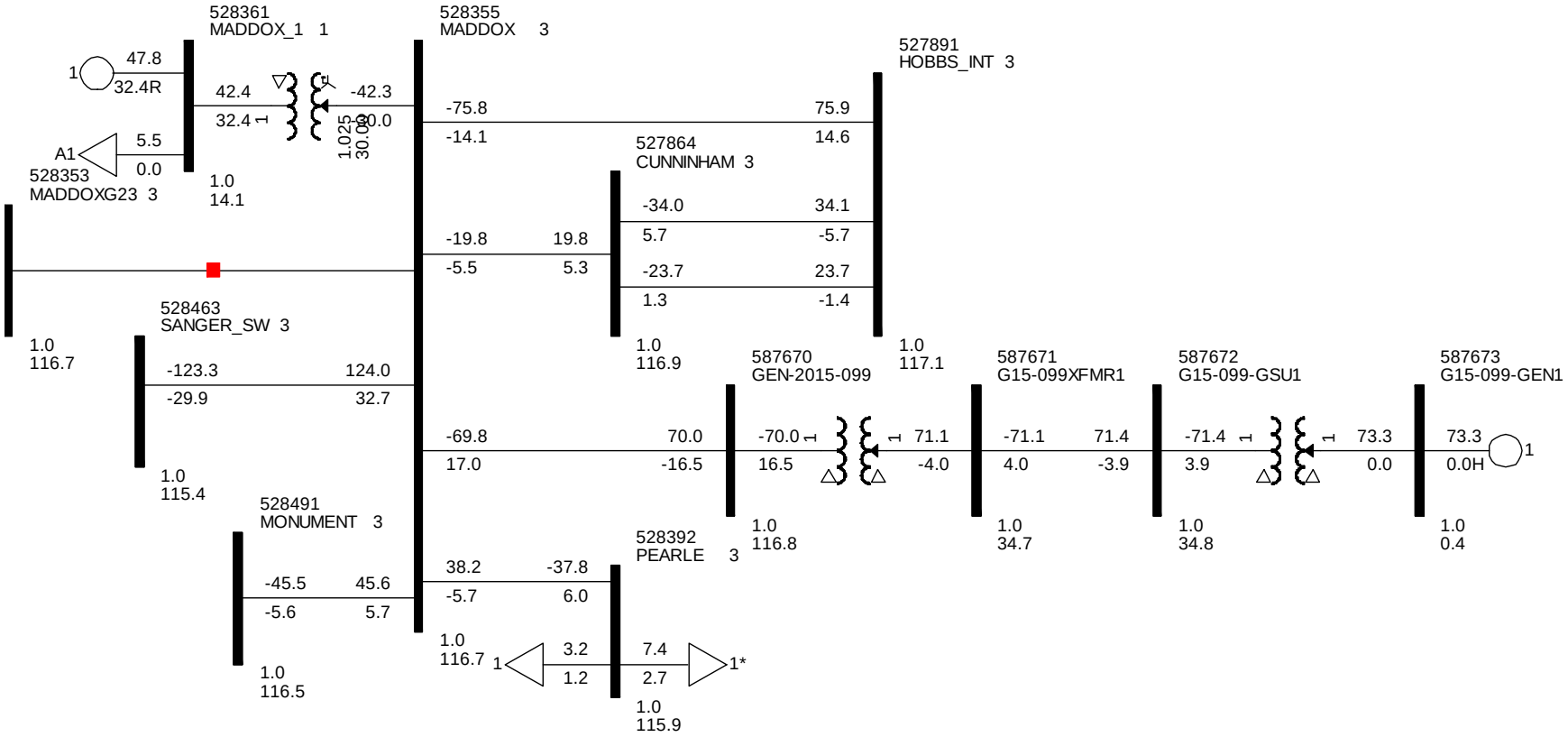

Figure 2-2. Power flow one-line diagram for interconnection project at Maddox 115 kV (GEN-2015-099).

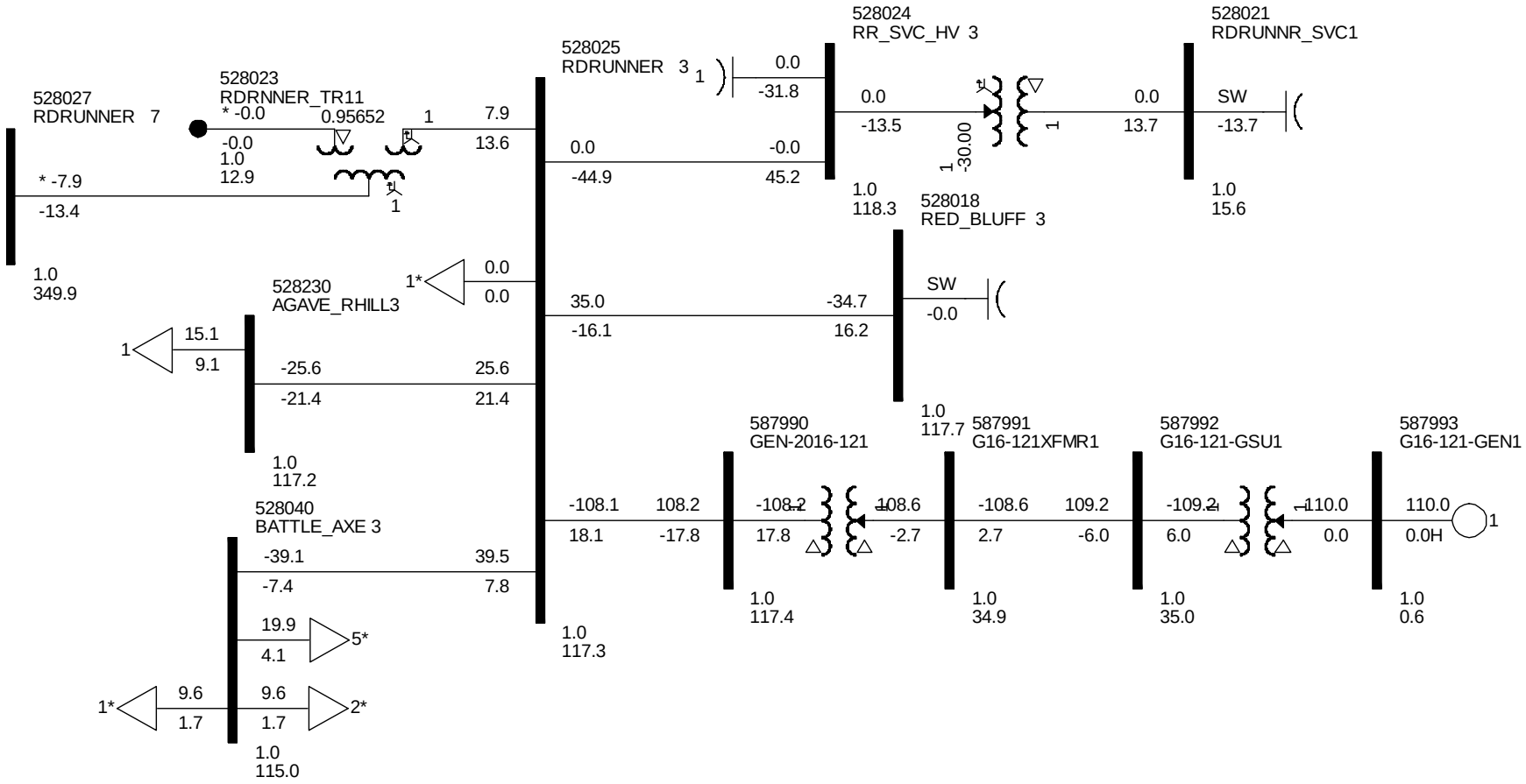

Figure 2-3. Power flow one-line diagram for interconnection project at Roadrunner 115 kV (GEN-2016-121).

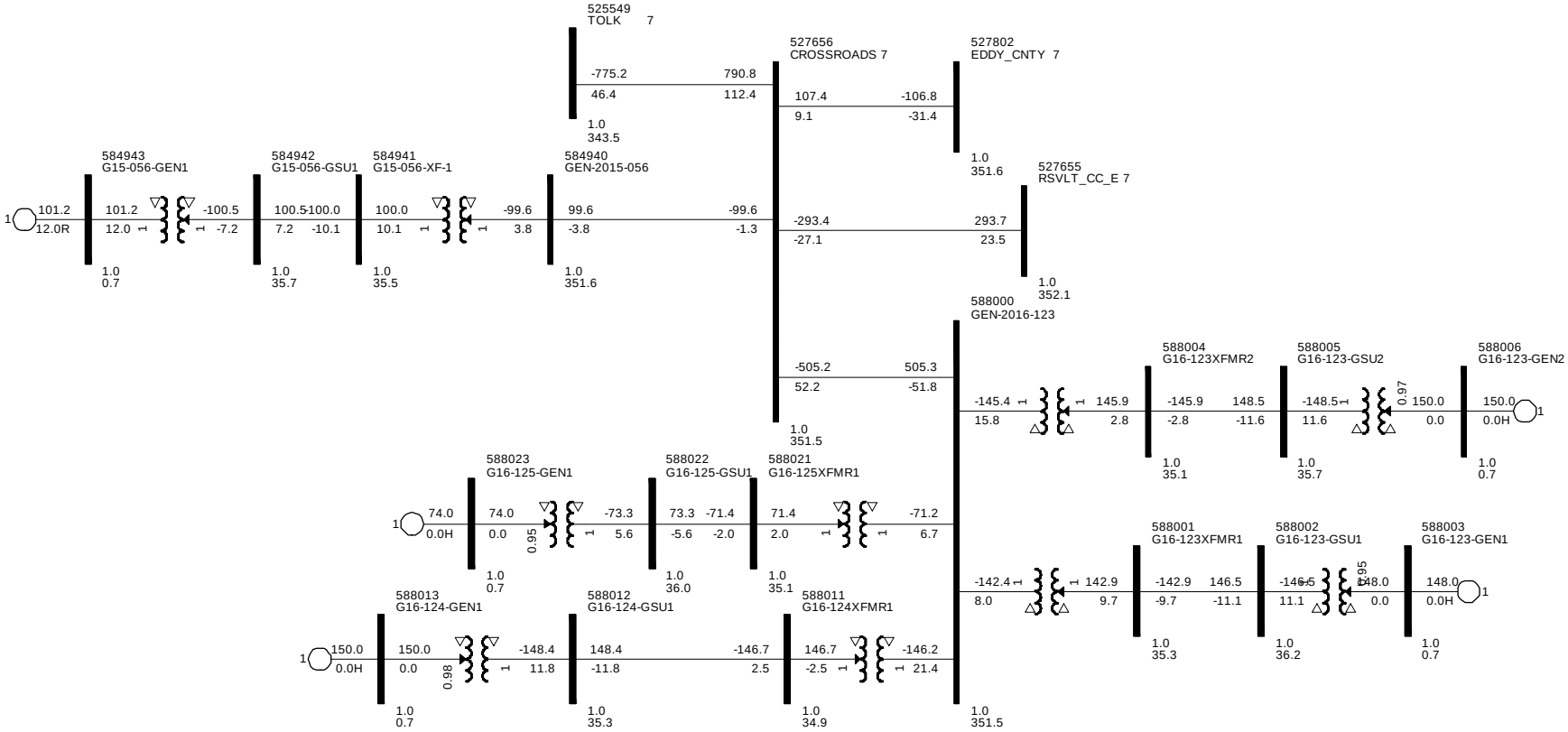

Figure 2-4. Power flow one-line diagram for interconnection project at Crossroads 345 kV (GEN-2016-123, - 124, and -125).

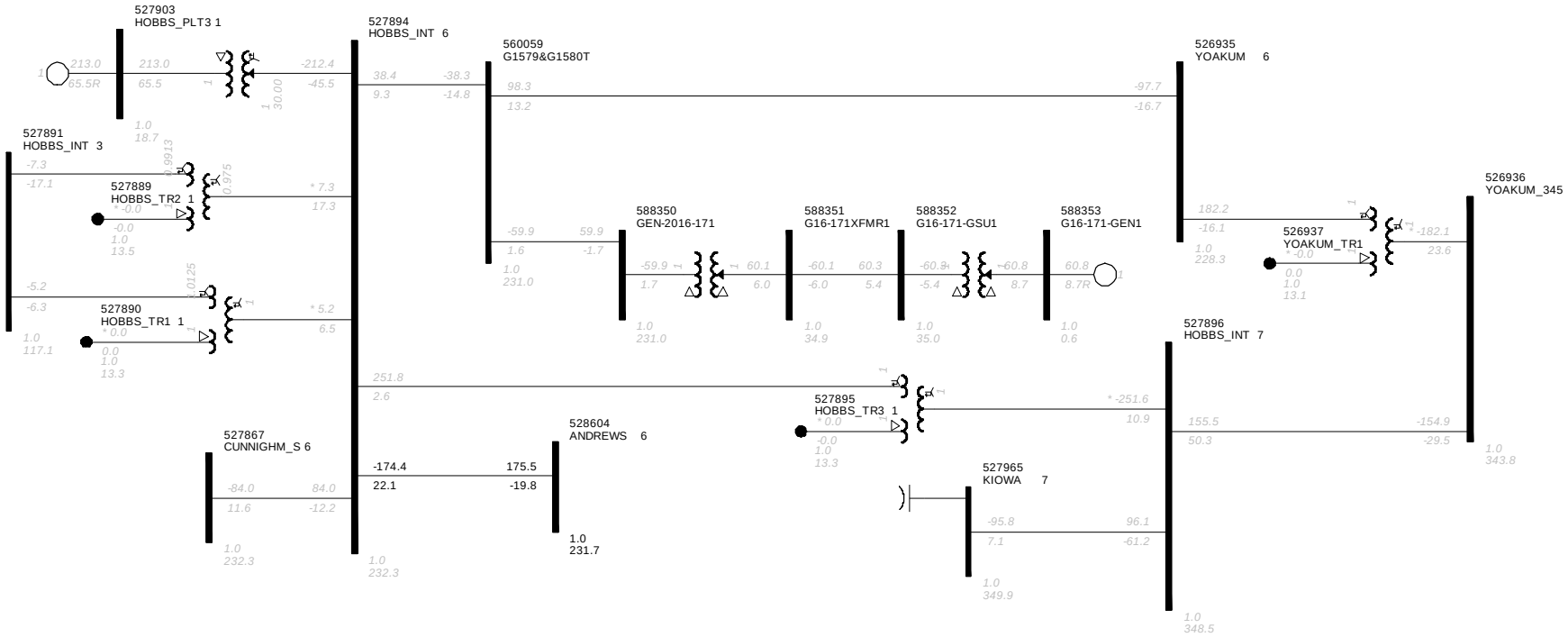

Figure 2-5. Power flow one-line diagram for interconnection project at Hobbs Interchange 345 kV and Hobbs to Yoakum 230 kV Tap POI (GEN-2016-171).

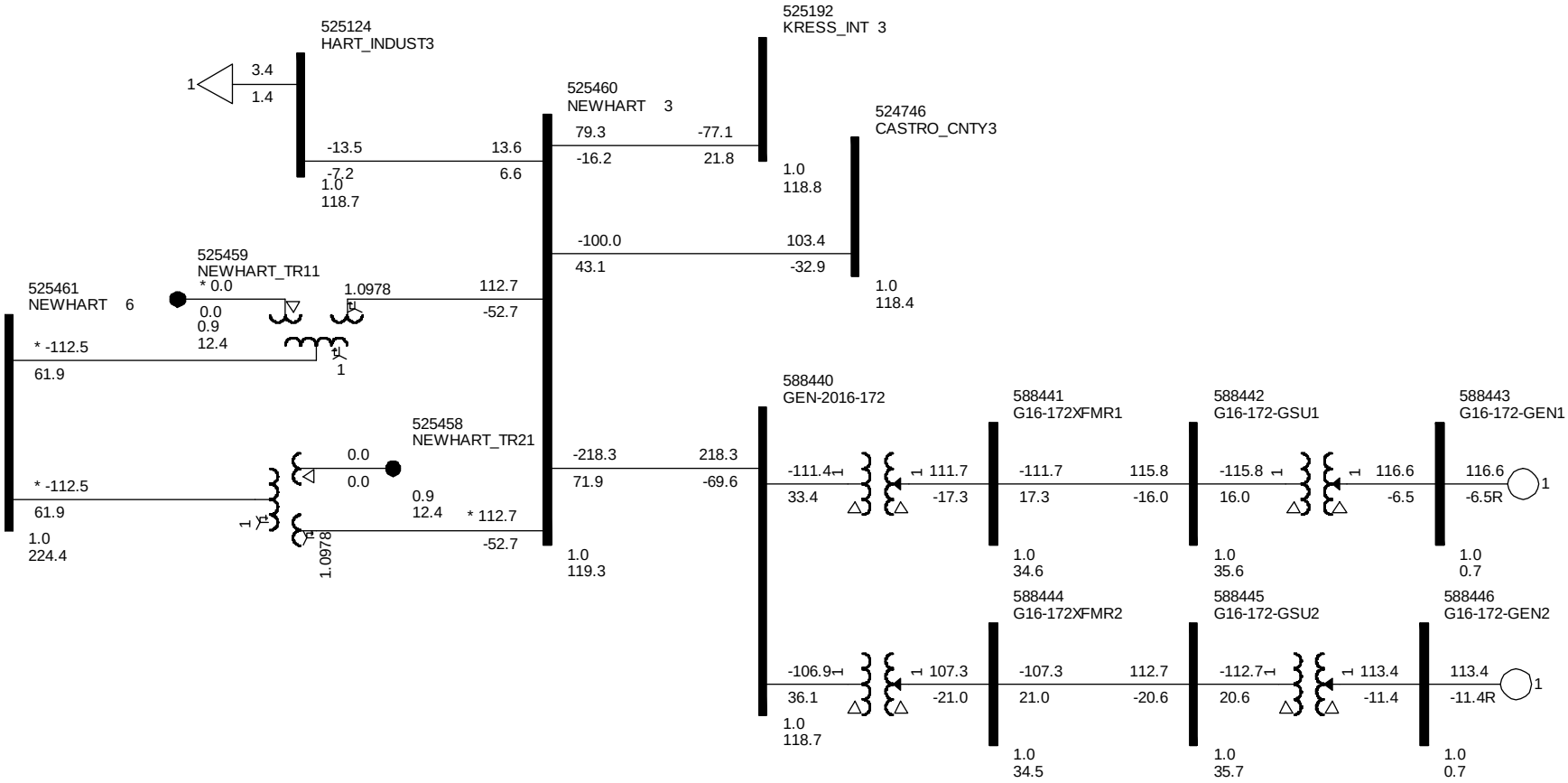

Figure 2-6. Power flow one-line diagram for interconnection project at Newhart 115 kV (GEN-2016-172).

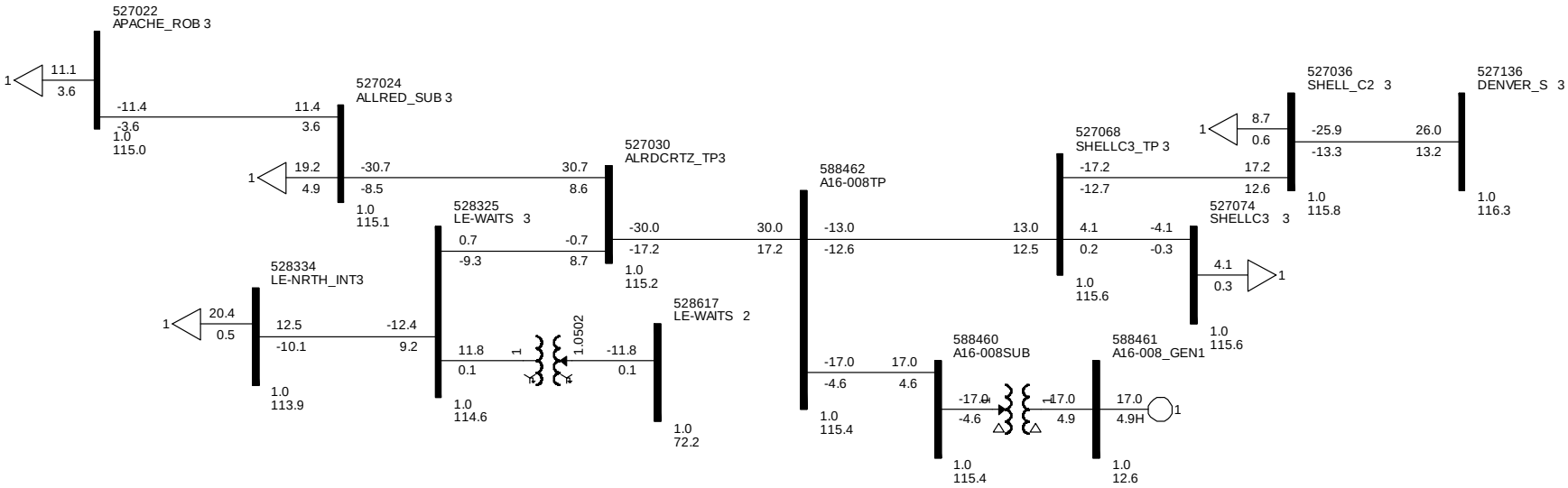

Figure 2-7. Power flow one-line diagram for interconnection project at Ink Basin to Denver City 115 kV Tap POI (GEN-2016-177 (A16-008)).

Table 2-3
Case List with Contingency Description

Cont. No.	Cont. Name	Description
1	FLT01-3PH	3 phase fault on the A16-008-Tap (588462) to ALRDCRTZ Tap (527030) 115 kV line circuit 1, near A16-008-Tap. a. Apply fault at the A16-008-Tap 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
2	FLT02-3PH	3 phase fault on the A16-008-Tap (588462) to Shell Tap (527068) 115 kV line circuit 1, near A16-008-Tap. a. Apply fault at the A16-008-Tap 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
3	FLT03-3PH	3 phase fault on the Shell Tap (527068) to Shell C2 (527036) 115 kV line circuit 1, near Shell Tap. a. Apply fault at the Shell Tap 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
4	FLT04-3PH	3 phase fault on the ALRDCRTZ Tap (527030) to ALLRED Sub (527024) 115 kV line circuit 1, near ALRDCRTZ Tap. a. Apply fault at the ALRDCRTZ Tap 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
5	FLT05-3PH	3 phase fault on the ALRDCRTZ Tap (527030) to LE-WAITS (528325) 115 kV line circuit 1, near ALRDCRTZ Tap. a. Apply fault at the ALRDCRTZ Tap 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
6	FLT06-3PH	**Removed**
7	FLT07-3PH	**Removed**
8	FLT08-3PH	**Removed**
9	FLT09-3PH	**Removed**
10	FLT10-3PH	**Removed**

Cont. No.	Cont. Name	Description
11	FLT11-3PH	**Removed**
12	FLT12-3PH	**Removed**
13	FLT13-3PH	**Removed**
14	FLT14-SB	**Single phase fault with stuck breaker at Shell Tap (527068)** a. Apply fault at the Shell Tap 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Shell Tap (527068) – A16-008-Tap (588462) 115 kV d. Shell Tap (527068) – Shell C2 (527036) 115 kV
15	FLT15-SB	**Single phase fault with stuck breaker at ALRDCRTZ (527030)** a. Apply fault at the ALRDCRTZ 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. ALRDCRTZ (527030) – ALLRED Sub (527024) 115 kV d. ALRDCRTZ (527030) – LE-WAITS (528325) 115 kV
16	FLT16-SB	**Removed**
17	FLT17-SB	**Removed**
18	FLT18-SB	**Removed**
19	FLT19-PO	**Prior Outage of A16-008-Tap 115 kV (588462) to Shell Tap 115 kV (527068) circuit 1;** 3 phase fault on the LE-LOVINGTON (528618) to LE-NRTH_INT (528334) transformer, near LE-NRTH_INT. a. Apply fault at the LE-NRTH_INT 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
20	FLT20-PO	**Prior Outage of A16-008-Tap 115 kV (588462) to Shell Tap 115 kV (527068) circuit 1;** 3 phase fault on the ALRDCRTZ Tap (527030) to LE-WAITS (528325) 115 kV line circuit 1, near ALRDCRTZ Tap. a. Apply fault at the ALRDCRTZ Tap 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
21	FLT21-PO	**Prior Outage of LE-LOVINGTON (528618) to LE-NRTH_INT (528334) xfmr 1;** 3 phase fault on the ALRDCRTZ Tap (527030) to LE-WAITS (528325) 115 kV line circuit 1, near ALRDCRTZ Tap. a. Apply fault at the ALRDCRTZ Tap 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
22	FLT22-PO	**Prior Outage of LE-LOVINGTON (528618) to LE-NRTH_INT (528334) xfmr 1;** 3 phase fault on the A16-008-Tap (588462) to Shell Tap (527068) 115 kV line circuit 1, near A16-008-Tap. a. Apply fault at the A16-008-Tap 115 bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
23	FLT23-PO	**Prior Outage of LE-NRTH_INT (528334) to LE-WAITS (528325) circuit 1;** 3 phase fault on the ALRDCRTZ Tap (527030) to ALLRED Sub (527024) 115 kV line circuit 1, near ALRDCRTZ Tap. a. Apply fault at the ALRDCRTZ Tap 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
24	FLT24-PO	**Prior Outage of LE-NRTH_INT (528334) to LE-WAITS (528325) circuit 1;** 3 phase fault on the A16-008-Tap (588462) to Shell Tap (527068) 115 kV line circuit 1, near A16-008-Tap. a. Apply fault at the A16-008-Tap 115 bus. b. Clear fault after 5 cycles by tripping the faulted line.
25	FLT25-PO	**Removed**
26	FLT26-3PH	3 phase fault on the Wolfforth (526524) to Yuma (526475) 115 kV line, near Wolfforth a. Apply fault at the Wolfforth 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
27	FLT27-3PH	3 phase fault on the Wolfforth (526524) to Terry County (526736) 115 kV line, near Wolfforth a. Apply fault at the Wolfforth 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
28	FLT28-3PH	3 phase fault on the Wolfforth 115 kV (526524) to Wolfforth 230 kV (526525) to Wolfforth 13.2 kV (526522) XFMR CKT 1, near Wolfforth 115 kV. a. Apply fault at the Wolfforth 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
29	FLT29-3PH	3 phase fault on the Terry County (526736) to Denver North (527130) 115 kV line, near Terry County a. Apply fault at the Terry County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
30	FLT30-3PH	3 phase fault on the Terry County (526736) to LG-Clauene (526491) 115 kV line, near Terry County a. Apply fault at the Terry County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
31	FLT31-3PH	3 phase fault on the Terry County (526736) to Sulphur (527262) 115 kV line, near Terry County a. Apply fault at the Terry County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
32	FLT32-3PH	3 phase fault on the Terry County (526736) to Prentice (526792) 115 kV line, near Terry County a. Apply fault at the Terry County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
33	FLT33-3PH	3 phase fault on the Terry County 115/69/13.2 kV (526736/526735/526733) transformer circuit 1, near Terry County 115 kV. a. Apply fault at the Terry County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
34	FLT34-3PH	3 phase fault on the Yuma (526475) to SP-Wolfforth Tap (526481) 115 kV line, near Yuma a. Apply fault at the Yuma 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
35	FLT35-3PH	3 phase fault on the Wolfforth (526525) to Sundown (526435) 230 kV line, near Wolfforth a. Apply fault at the Wolfforth 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
36	FLT36-3PH	3 phase fault on the Wolfforth (526525) to Lubbock South (526269) 230 kV line, near Wolfforth a. Apply fault at the Wolfforth 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
37	FLT37-3PH	3 phase fault on the Wolfforth (526525) to Carlisle (526161) 230 kV line, near Wolfforth a. Apply fault at the Wolfforth 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
38	FLT38-3PH	3 phase fault on the SP-Wolfforth Tap (526481) to LP-Doud Tap (526162) 115 kV line, near SP-Wolfforth Tap a. Apply fault at the SP-Wolfforth Tap 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
39	FLT39-3PH	**Removed**
40	FLT40-SB	**Single phase fault with stuck breaker at Wolfforth (526524)** a. Apply fault at the Wolfforth 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Wolfforth (526524) – Yuma (526475) 115 kV d. Wolfforth (526524) – Terry County (526736) 115 kV
41	FLT41-SB	**Single phase fault with stuck breaker at Wolfforth (526524)** a. Apply fault at the Wolfforth 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Wolfforth 115 kV (526524)/230 kV (526525)/13.2 kV (526522) xfmr d. Wolfforth (526524) – Terry County (526736) 115 kV
42	FLT42-SB	**Removed**
43	FLT43-SB	**Single phase fault with stuck breaker Terry County (526736)** a. Apply fault at the Terry County 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Terry County (526736) – Prentice (526792) 115 kV d. Terry County (526736) – Sulphur (527262) 115 kV
44	FLT44-SB	**Single phase fault with stuck breaker Terry County (526736)** a. Apply fault at the Terry County 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Terry County (526736) – Denver (527130) 115 kV d. Terry County (526736) – LG-Clauene (526491) 115 kV

Cont. No.	Cont. Name	Description
45	FLT45-PO	**Prior Outage of the Wolfforth (526524) to Terry County (526736) 115 kV line circuit 1;** 3 phase fault on the Wolfforth 115 kV (526524)/230 kV (526525)/13.2 kV (526522) transformer, near Wolfforth. a. Apply fault at the Wolfforth 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
46	FLT46-PO	**Prior Outage of the Wolfforth (526524) to Terry County (526736) 115 kV line circuit 1;** 3 phase fault on the Wolfforth (526524) to Yuma (526475) 115 kV line, near Wolfforth a. Apply fault at the Wolfforth 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
47	FLT47-PO	**Prior Outage of the Wolfforth (526524) to Yuma (526475) 115 kV line circuit 1;** 3 phase fault on the Wolfforth 115 kV (526524)/230 kV (526525)/13.2 kV (526522) transformer, near Wolfforth. a. Apply fault at the Wolfforth 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
48	FLT48-PO	**Prior Outage of the Wolfforth (526524) to Yuma (526475) 115 kV line circuit 1;** 3 phase fault on the Wolfforth (526524) to Terry County (526736) 115 kV line circuit 1, near Wolfforth. a. Apply fault at the Wolfforth 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
49	FLT49-PO	**Prior Outage of the SP-Wolfforth Tap (526481) to SP-Wolfforth (526483) 115 kV line circuit 1;** 3 phase fault on the SP-Wolfforth Tap (526481) to LP-Doud (526162) 115 kV line circuit 1, near SP-Wolfforth Tap. a. Apply fault at the SP-Wolfforth Tap 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
50	**Removed**	3 phase fault on the G15-039-Tap (560051) to Deaf Smith (524623) 230 kV line circuit 1, near G15-039-Tap. a. Apply fault at the G15-039-Tap 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
51	FLT51-3PH	3 phase fault on the Deaf Smith (524623) to Plant X (525481) 230 kV line circuit 1, near Deaf Smith. a. Apply fault at the Deaf Smith 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
52	FLT52-3PH	3 phase fault on the Deaf Smith (524623) to Bushland (524267) 230 kV line circuit 1, near Deaf Smith. a. Apply fault at the Deaf Smith 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
53	FLT53-3PH	3 phase fault on the Deaf Smith 230/115/13.2 kV (524623/524622/524620) transformer circuit 1, near Deaf Smith 230 kV. a. Apply fault at the Deaf Smith 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
54	FLT54-3PH	3 phase fault on the Bushland (524267) to Potter County (523959) 230 kV line circuit 1, near Bushland. a. Apply fault at the Bushland 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
55	FLT55-3PH	3 phase fault on the Plant X (525481) to Tolk East (525524) 230 kV line circuit 2, near Plant X. a. Apply fault at the Plant X 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
56	FLT56-3PH	3 phase fault on the Plant X (525481) to Newhart (525461) 230 kV line circuit 1, near Plant X. a. Apply fault at the Plant X 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
57	FLT57-3PH	3 phase fault on the Plant X (525481) to Tolk West (525531) 230 kV line circuit 1, near Plant X. a. Apply fault at the Plant X 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
58	FLT58-3PH	3 phase fault on the Plant X (525481) to Sundown (526435) 230 kV line circuit 1, near Plant X. a. Apply fault at the Plant X 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
59	FLT59-3PH	3 phase fault on the Plant X 230/115/13.2 kV (525481/525480/525479) transformer circuit 1, near Plant X 230 kV. a. Apply fault at the Plant X 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
60	FLT60-SB	**Single phase fault with stuck breaker** on the Tolk West (525531) to Plant X (525481) 230 kV circuit 1 line, near Tolk West. a. Apply fault at the Tolk West 230 kV bus. b. Run 5 cycles, and then open Plant X end of the faulted line. c. Run 10 cycles, and then clear the fault and disconnect Tolk West 230 kV bus (525531).
61	FLT61- SB	**Single phase fault with stuck breaker** on the Tolk East (525524) to Plant X (525481) 230 kV line circuit 2, near Tolk East. a. Apply fault at the Tolk East 230 kV bus. b. Run 5 cycles, and then open Plant X end of the faulted line. c. Run 10 cycles, and then clear the fault and disconnect Tolk East 230 kV bus (525524).
62	FLT62- SB	**Single phase fault with stuck breaker at Deaf Smith (524623) 230 kV** a. Apply fault at the Deaf Smith 230 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Deaf Smith (524623) - Bushland (524267) 230 kV d. Deaf Smith (524623) – Plant X (525481) 230 kV
63	FLT63- SB	**Single phase fault with stuck breaker at Plant X (525481) 230 kV** a. Apply fault at the Plant X 230 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Plant X (525481) – Deaf Smith (524623) 230 kV d. Plant X (525481) – Newhart (525461) 230 kV
64	FLT64- SB	**Single phase fault with stuck breaker at Plant X (525481) 230 kV** a. Apply fault at the Plant X 230 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Plant X (525481) – Tolk West (525531) 230 kV d. Plant X (525481) – Sundown (526435) 230 kV

Cont. No.	Cont. Name	Description
65	FLT65- SB	**Single phase fault with stuck breaker at Plant X (525481) 230 kV** a. Apply fault at the Plant X 230 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Plant X 230/115/13.2 kV (525481/525480/525479) transformer d. Plant X (525481) – Newhart (525461) 230 kV
66	FLT66-PO	**Prior Outage of the Plant X 230/115/13.2 kV (525481/525480/525479) transformer circuit 1;** 3 phase fault on the Plant X 230 kV (525481) to Sundown (526435) 230 kV line circuit 1, near Plant X. a. Apply fault at the Plant X 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
67	FLT67- PO	**Prior Outage of the Plant X 230/115/13.2 kV (525481/525480/525479) transformer circuit 1;** 3 phase fault on the Deaf Smith (524623) to Plant X (525481) 230 kV line circuit 1, near Deaf Smith. a. Apply fault at the Deaf Smith 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line
68	FLT68- PO	**Prior Outage of the Plant X (525481) to Sundown (526435) 230 kV Line;** 3 phase fault on the Plant X 230 kV (525481) to Tolk East (525524) 230 kV line circuit 2, near Plant X. a. Apply fault at the Plant X 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
69	FLT69- PO	**Prior Outage of the Plant X (525481) to Sundown (526435) 230 kV Line;** 3 phase fault on the Deaf Smith (524623) to Plant X (525481) 230 kV line circuit 1, near Deaf Smith. a. Apply fault at the Deaf Smith 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line
70	FLT70- PO	**Prior Outage of the Deaf Smith (524623) to Bushland (524267) 230 kV Line;** 3 phase fault on the Deaf Smith 230 kV to G15-039-Tap (560051) 230 kV line circuit 1, near Deaf Smith. a. Apply fault at the D 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
71	**Removed**	**Prior Outage of the Deaf Smith (524623) to Bushland (524267) 230 kV Line;** 3 phase fault on the G15-039-Tap (560051) to Plant X (525481) 230 kV line circuit 1, near G15-039-Tap. a. Apply fault at the G15-039-Tap 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
72	FLT72-3PH	3 phase fault on the Mustang (527149) to Amoco Wasson (526784) 230 kV line circuit 1, near Mustang. a. Apply fault at the Mustang 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
73	FLT73-3PH	3 phase fault on the Mustang 230/115/13.2 kV (527149/527146/527143) transformer circuit 1, near Mustang 230 kV. a. Apply fault at the Mustang 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
74	FLT74-3PH	3 phase fault on the Mustang (527149) to Yoakum (526935) 230 kV line circuit 1, near Mustang. a. Apply fault at the Mustang 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
75	FLT75-3PH	3 phase fault on the Mustang (527149) to Seminole (527276) 230 kV line circuit 1, near Mustang. a. Apply fault at the Mustang 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
76	FLT76-3PH	3 phase fault on the Seminole 230/115/13.2 kV (527276/527275/527273) transformer circuit 1, near Seminole 230 kV. a. Apply fault at the Seminole 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
77	FLT77-3PH	3 phase fault on the Yoakum (526935) to G13-027-TAP (562480) 230 kV line, near Yoakum. a. Apply fault at the Yoakum 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
78	FLT78-3PH	3 phase fault on the Yoakum (526935) to Amoco (526460) 230 kV line, near Yoakum. a. Apply fault at the Yoakum 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
79	FLT79-3PH	3 phase fault on the Yoakum (526935) to G1579&G1580T (560059) 230 kV line, near Yoakum. a. Apply fault at the Yoakum 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
80	FLT80-3PH	3 phase fault on the Yoakum (526935) to OxyBru Tap (527009) 230 kV line, near Yoakum. a. Apply fault at the Yoakum 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
81	FLT81-3PH	3 phase fault on the Yoakum 230/115/13.2 kV (526935/526935/526931) transformer circuit 1, near Yoakum 230 kV. a. Apply fault at the Yoakum 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
82	FLT82-3PH	3 phase fault on the Amoco Wasson (526784) to OxyBru Tap (527009) 230 kV line circuit 1, near Amoco Wasson. a. Apply fault at the Amoco Wasson 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
83	FLT83-3PH	3 phase fault on the Mustang (527146) to Denver North (527130) 115 kV line circuit 1, near Mustang. a. Apply fault at the Mustang 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
84	FLT84-3PH	3 phase fault on the Mustang (527146) to Seagraves (527202) 115 kV line circuit 1, near Mustang. a. Apply fault at the Mustang 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
85	FLT85-3PH	3 phase fault on the Mustang (527146) to Denver South (527136) 115 kV line circuit 1, near Mustang. a. Apply fault at the Mustang 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
86	FLT86-3PH	3 phase fault on the Mustang (527146) to Shell Co (527062) 115 kV line circuit 1, near Mustang. a. Apply fault at the Mustang 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
87	FLT87-3PH	3 phase fault on the Seagraves (527202) to LG-PLSHILL (527194) 115 kV line circuit 1, near Seagraves. a. Apply fault at the Seagraves 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
88	FLT88-3PH	3 phase fault on the Seagraves (527202) to Sulphur (527262) 115 kV line circuit 1, near Seagraves. a. Apply fault at the Seagraves 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
89	FLT89-3PH	3 phase fault on the Denver North (527136) to Shell (527036) 115 kV line circuit 1, near Denver North. a. Apply fault at the Denver North 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
90	FLT90-3PH	3 phase fault on the Denver North (527136) to San Andreas (527105) 115 kV line circuit 1, near Denver North. a. Apply fault at the Denver North 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
91	FLT91-3PH	3 phase fault on the Denver North 115/69/13.2 kV (527130/527125/527122) transformer circuit 2, near Denver North. a. Apply fault at the Denver North 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
92	FLT92-SB	**Single phase fault with stuck breaker at Mustang (527149)** a. Apply fault at the Mustang 230 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Mustang 230/115/13.2 kV (527149/527146/527143) transformer d. Mustang (527149) – Amoco Wasson (526784) 230 kV
93	FLT93-SB	**Single phase fault with stuck breaker at Mustang (527149)** a. Apply fault at the Mustang 230 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Mustang (527149) – Seminole (527276) 230 kV d. Mustang (527149) – Amoco Wasson (526784) 230 kV
94	FLT94-SB	**Single phase fault with stuck breaker** on the Yoakum (526935) to G13-027-Tap (562480) 230 kV line, near Yoakum. a. Apply fault at the Yoakum 230 kV bus. b. Run 5 cycles, and then open G13-027-Tap end of the faulted line. c. Run 10 cycles, and then clear the fault and open Yoakum end of the line in (b) and trip Yoakum 230/115/13.2 kV (526935/526934/526931) transformer circuit 1.
95	FLT95-SB	**Single phase fault with stuck breaker** on the Yoakum (526935) to Amoco-SS (526460) 230 kV line, near Yoakum. a. Apply fault at the Yoakum 230 kV bus. b. Run 5 cycles, and then open Amoco-SS end of the faulted line. c. Run 10 cycles, and then clear the fault and trip Yoakum 230 kV (526935) bus.
96	FLT96-SB	**Single phase fault with stuck breaker at Mustang (527146)** a. Apply fault at the Mustang 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Mustang 230/115/13.2 kV (527149/527146/527143) transformer d. Mustang (527146) – Denver South (527136) 115 kV
97	FLT97-SB	**Single phase fault with stuck breaker at Mustang (527146)** a. Apply fault at the Mustang 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Mustang (527146) – Seagraves (527202) 115 kV d. Mustang (527146) – Denver North (527130) 115 kV

Cont. No.	Cont. Name	Description
98	FLT98-SB	**Single phase fault with stuck breaker at Mustang (527146)** a. Apply fault at the Mustang 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Mustang (527146) – Denver South (527136) 115 kV d. Mustang (527146) – Denver North (527130) 115 kV
99	FLT99-SB	**Single phase fault with stuck breaker at Mustang (527146)** a. Apply fault at the Mustang 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Mustang (527146) – Shell County (527062) 115 kV d. Mustang (527146) – Seagraves (527202) 115 kV
100	FLT100-PO	**Prior Outage of the Mustang (527149) to Seminole (527276) 230 kV line circuit 1;** 3 phase fault on the Mustang (527149) to Yoakum (526935) 230 kV line circuit 1, near Mustang. a. Apply fault at the Mustang 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
101	FLT101- PO	**Prior Outage of the Mustang (527149) to Seminole (527276) 230 kV line circuit 1;** 3 phase fault on the Mustang (527149) to Amoco Wasson (526784) 230 kV line circuit 1, near Mustang. a. Apply fault at the Mustang 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
102	FLT102- PO	**Prior Outage of the Mustang (527149) to Yoakum (526935) 230 kV line circuit 1;** 3 phase fault on the Mustang (527149) to Seminole (527276) 230 kV line circuit 1, near Mustang. a. Apply fault at the Mustang 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
103	FLT103- PO	**Prior Outage of the Mustang (527149) to Yoakum (526935) 230 kV line circuit 1;** 3 phase fault on the Mustang (527149) to Amoco Wasson (526784) 230 kV line circuit 1, near Mustang. a. Apply fault at the Mustang 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
104	FLT104- PO	**Prior Outage of the Mustang (527146) to Denver North (527130) 115 kV line circuit 1;** 3 phase fault on the Mustang (527146) to Denver South (527136) 115 kV line circuit 2, near Mustang. a. Apply fault at the Mustang 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
105	FLT105- PO	**Prior Outage of the Mustang (527146) to Denver North (527130) 115 kV line circuit 1;** 3 phase fault on the Mustang (527146) to Shell Co (527062) 115 kV line circuit 1, near Mustang. a. Apply fault at the Mustang 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
106	FLT106- PO	**Prior Outage of the Mustang (527149) 230 kV to Mustang (527146) 115 kV transformer, circuit 1;** 3 phase fault on the Mustang (527146) to Denver North (527130) 115 kV line circuit 1, near Mustang. a. Apply fault at the Mustang 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
107	FLT107- PO	**Prior Outage of the Mustang (527146) to Shell County (527062) 115 kV line circuit 1;** 3 phase fault on the Mustang (527146) to Denver South (527136) 115 kV line circuit 2, near Mustang. a. Apply fault at the Mustang 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
108	FLT108-3PH	3 phase fault on the Maddox (528355) to Cunningham (527864) 115 kV line circuit 1, near Maddox. a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
109	FLT109-3PH	3 phase fault on the Maddox (528355) to Hobbs Interchange (527891) 115 kV line circuit 1, near Maddox. a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
110	FLT110-3PH	3 phase fault on the Maddox (528355) to Pearle (528392) 115 kV line circuit 1, near Maddox. a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
111	FLT111-3PH	3 phase fault on the Maddox (528355) to Sanger Switch (528463) 115 kV line circuit 1, near Maddox. a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
112	FLT112-3PH	3 phase fault on the Maddox (528355) to Monument (528491) 115 kV line circuit 1, near Maddox. a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
113	FLT113-3PH	3 phase fault on the Cunningham (527864) to Monument Tap (528568) 115 kV line circuit 1, near Cunningham. a. Apply fault at the Cunningham 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
114	FLT114-3PH	3 phase fault on the Cunningham (527864) to Buckeye Tap (528348) 115 kV line circuit 1, near Cunningham. a. Apply fault at the Cunningham 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
115	FLT115-3PH	3 phase fault on the Cunningham (527864) to Quahada (528394) 115 kV line circuit 1, near Cunningham. a. Apply fault at the Cunningham 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
116	FLT116-3PH	3 phase fault on the Cunningham (527864) to Hobbs Interchange (527891) 115 kV line circuit 1, near Cunningham. a. Apply fault at the Cunningham 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
117	FLT117-3PH	3 phase fault on the Cunningham 230/115/13.2 kV (527864/527867/527863) transformer circuit 1, near Cunningham. a. Apply fault at the Cunningham 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
118	FLT118-3PH	3 phase fault on the Hobbs Interchange (527891) to LE-West (528333) 115 kV line circuit 1, near Hobbs Interchange. a. Apply fault at the Hobbs Interchange 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
119	FLT119-3PH	3 phase fault on the Hobbs Interchange (527891) to Bensing (528333) 115 kV line circuit 1, near Hobbs Interchange. a. Apply fault at the Hobbs Interchange 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
120	FLT120-3PH	3 phase fault on the Hobbs Interchange (527891) to Millen (528435) 115 kV line circuit 1, near Hobbs Interchange. a. Apply fault at the Hobbs Interchange 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
121	FLT121-3PH	3 phase fault on the Hobbs Interchange 230/115/13.2 kV (527891/527894/527890) transformer 1, near Hobbs Interchange. a. Apply fault at the Hobbs Interchange 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
122	FLT122-3PH	3 phase fault on the Monument (528491) to West Hobbs (528498) 115 kV line circuit 1, near Monument. a. Apply fault at the Monument 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
123	FLT123-SB	**Single phase fault with stuck breaker at Maddox (528355)** a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Maddox (528355) – Cunningham (527864) 115 kV d. Maddox (528355) – Hobbs Interchange (527891) 115 kV

Cont. No.	Cont. Name	Description
124	FLT124-SB	**Single phase fault with stuck breaker at Maddox (528355)** a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Maddox (528355) – Cunningham (527864) 115 kV d. Maddox (528355) – Monument (528491) 115 kV
125	FLT125-SB	**Single phase fault with stuck breaker at Maddox (528355)** a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Maddox (528355) – Sanger Switch (528463) 115 kV d. Maddox (528355) – Pearle (528392) 115 kV
126	FLT126-SB	**Single phase fault with stuck breaker at Maddox (528355)** a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Maddox (528355) – Sanger Switch (528463) 115 kV d. Maddox (528355) – Monument (528491) 115 kV
127	FLT127-SB	**Single phase fault with stuck breaker at Cunningham (527864)** a. Apply fault at the Cunningham 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Cunningham (527864) – Hobbs Interchange (527891) 115 kV circuit 1 d. Cunningham (527864) – Hobbs Interchange (527891) 115 kV circuit 2
128	FLT128-SB	**Single phase fault with stuck breaker at Cunningham (527864)** a. Apply fault at the Cunningham 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Cunningham (527864) – Buckeye Tap (528348) 115 kV d. Cunningham (527864) – Monument Tap (528568) 115 kV
129	FLT129-SB	**Single phase fault with stuck breaker at Hobbs Interchange (527891)** a. Apply fault at the Hobbs Interchange 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Hobbs Interchange (527891) – Millen (528435) 115 kV d. Hobbs Interchange (527891) – Bensing (528433) 115 kV
130	FLT130-SB	**Single phase fault with stuck breaker at Hobbs Interchange (527891)** a. Apply fault at the Hobbs Interchange 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Hobbs Interchange 230/115/13.2 kV (527891/527894/527890) transformer circuit 1 d. Hobbs Interchange 230/115/13.2 kV (527891/527894/527889) transformer circuit 2

Cont. No.	Cont. Name	Description
131	FLT131-PO	**Prior Outage of the Maddox (528355) to Cunningham (527864) 115 kV line circuit 1;** 3 phase fault on the Maddox (528355) to Hobbs Interchange (527891) 115 kV line circuit 1, near Maddox. a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
132	FLT132-PO	**Prior Outage of the Maddox (528355) to Cunningham (527864) 115 kV line circuit 1;** 3 phase fault on the Maddox (528355) to Pearle (528392) 115 kV line circuit 1, near Maddox. a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
133	FLT133-PO	**Prior Outage of the Maddox (528355) to Cunningham (527864) 115 kV line circuit 1;** 3 phase fault on the Maddox (528355) to Sanger Switch (528463) 115 kV line circuit 1, near Maddox. a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
134	FLT134-PO	**Prior Outage of the Maddox (528355) to Sanger Switch (528463) 115 kV line circuit 1;** 3 phase fault on the Maddox (528355) to Cunningham (527864) 115 kV line circuit 1, near Maddox. a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
135	FLT135-PO	**Prior Outage of the Maddox (528355) to Sanger Switch (528463) 115 kV line circuit 1;** 3 phase fault on the Maddox (528355) to Hobbs Interchange (527891) 115 kV line circuit 1, near Maddox. a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
136	FLT136-PO	**Prior Outage of the Maddox (528355) to Sanger Switch (528463) 115 kV line circuit 1;** 3 phase fault on the Maddox (528355) to Monument (528491) 115 kV line circuit 1, near Maddox. a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
137	FLT137-PO	**Prior Outage of the Maddox (528355) to Sanger Switch (528463) 115 kV line circuit 1;** 3 phase fault on the Maddox (528355) to Pearle (587670) 115 kV line circuit 1, near Maddox. a. Apply fault at the Maddox 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
138	FLT138-3PH	3 phase fault on the Swisher (525212) to Kress (525192) 115 kV line circuit 1, near Swisher. a. Apply fault at the Swisher 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
139	FLT139-3PH	3 phase fault on the Swisher 230/115/13.2 kV (525213/525212/525211) transformer circuit 1, near Swisher 115 kV. a. Apply fault at the Swisher 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
140	FLT140-3PH	3 phase fault on the Kress (525192) to Kress Rural (525225) 115 kV line circuit 1, near Kress. a. Apply fault at the Kress 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
141	FLT141-3PH	3 phase fault on the Kress (525192) to Newhart (525460) 115 kV line circuit 1, near Kress. a. Apply fault at the Kress 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
142	FLT142-3PH	3 phase fault on the Kress (525192) to Tulia Tap (525179) 115 kV line circuit 1, near Kress. a. Apply fault at the Kress 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
143	FLT143-3PH	3 phase fault on the Kress (525192) to Hale County (525454) 115 kV line circuit 1, near Kress. a. Apply fault at the Kress 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
144	FLT144-3PH	3 phase fault on the Kress 115/69/13.2 kV (525192/525191/525190) transformer circuit 1, near Kress 115 kV. a. Apply fault at the Kress 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.

Cont. No.	Cont. Name	Description
145	FLT145-3PH	3 phase fault on the Swisher (525213) to Crawfish Draw (560021) 230 kV line circuit 1, near Swisher. a. Apply fault at the Swisher 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
146	FLT146-3PH	3 phase fault on the Swisher (525213) to Newhart (525461) 230 kV line circuit 1, near Swisher. a. Apply fault at the Swisher 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
147	FLT147-3PH	3 phase fault on the Swisher (525213) to G15-031-Tap (560050) 230 kV line circuit 1, near Swisher. a. Apply fault at the Swisher 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
148	FLT148-SB	**Single phase fault with stuck breaker at Swisher (525213) 230 kV** a. Apply fault at the Swisher 230 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Swisher (525213) – Newhart (525461) 230 kV d. Swisher 230/115/13.2 kV (525213/525212/525211) transformer
149	FLT149-SB	**Single phase fault with stuck breaker at Swisher (525213) 230 kV** a. Apply fault at the Swisher 230 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Swisher (525213) – Crawfish Draw (560021) 230 kV d. Swisher 230/115/13.2 kV (525213/525212/525211) transformer
150	FLT150-SB	**Single phase fault with stuck breaker at Swisher (525213) 230 kV** a. Apply fault at the Swisher 230 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Swisher (525213) – Newhart (525461) 230 kV d. Swisher (525213) – G15-031-Tap (560050) 230 kV
151	FLT151-SB	**Single phase fault with stuck breaker at Kress (525192) 115 kV** a. Apply fault at the Kress 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Kress (525192) – Tulia Tap (525179) 115 kV d. Kress (525192) – Kress Rural (525225) 115 kV

Cont. No.	Cont. Name	Description
152	FLT152-SB	**Single phase fault with stuck breaker at Kress (525192) 115 kV** a. Apply fault at the Kress 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Kress (525192) – Newhart (525460) 115 kV d. Kress (525192) – Hale County (525454) 115 kV
153	FLT153-PO	**Prior Outage of the Swisher (525213) to Tuco (525830) 230 kV line circuit 1;** 3 phase fault on the Swisher (525212) to Kress (525192) 115 kV line circuit 1, near Swisher. a. Apply fault at the Swisher 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line
154	FLT154-PO	**Prior Outage of the Swisher (525213) to Tuco (525830) 230 kV line circuit 1;** 3 phase fault on the Swisher (525212) to Newhart (525461) 230 kV line circuit 1, near Swisher. a. Apply fault at the Swisher 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line
155	FLT155-PO	**Prior Outage of the Swisher (525213) to Tuco (525830) 230 kV line circuit 1;** 3 phase fault on the Kress (525192) to Newhart (525460) 115 kV line circuit 1, near Swisher. a. Apply fault at the Swisher 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line
156	FLT156-PO	**Prior Outage of the Swisher (525213) to Tuco (525830) 230 kV line circuit 1;** 3 phase fault on the Kress (525192) to Tulia Tap (525179) 115 kV line circuit 1, near Swisher. a. Apply fault at the Swisher 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line
157	FLT157-PO	**Prior Outage of the Swisher (525212) to Kress (525192) 115 kV line circuit 1;** 3 phase fault on the Swisher (525213) to Newhart (525461) 230 kV line circuit 1, near Swisher. a. Apply fault at the Swisher 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line
158	FLT158-PO	**Prior Outage of the Swisher (525212) to Kress (525192) 115 kV line circuit 1;** 3 phase fault on the Swisher (525213) to Crawfish Draw (560021) 230 kV line circuit 1, near Swisher. a. Apply fault at the Swisher 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line

Cont. No.	Cont. Name	Description
159	FLT159-3PH	3 phase fault on the Ozark Mahoning (526770) to Lakeview (526631) 69 kV line circuit 1, near Ozark Mahoning. a. Apply fault at the Ozark Mahoning 69 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
160	FLT160-3PH	3 phase fault on the LG-Dixon (526711) to Ozark Mahoning (526770) 69 kV line circuit 1, near LG-Dixon. a. Apply fault at the LG-Dixon 69 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
161	FLT161-3PH	3 phase fault on the Brownfield (526754) to LG-Brownfield (526747) 69 kV line circuit 1, near Brownfield. a. Apply fault at the Brownfield 69 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
162	FLT162-3PH	3 phase fault on the Brownfield (526754) to Brownfield Tap (526761) 69 kV line circuit 1, near Brownfield. a. Apply fault at the Brownfield 69 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
163	FLT163-3PH	3 phase fault on the Terry County (526735) to LG-DOCWEBR (526506) 69 kV line circuit 1, near Swisher. a. Apply fault at the Terry County 69 kV bus. b. Clear fault after 5 cycles by tripping the faulted line c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
164	FLT164-SB	**Single phase fault with stuck breaker at Terry County (526735) 69 kV** a. Apply fault at the Terry County 69 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Terry County (526735) – LG-DOCWEBR (526506) 69 kV d. Terry County 115/69/13.2 kV (526736/526735/526733) transformer

Cont. No.	Cont. Name	Description
165	FLT165-PO	**Prior Outage of the Terry County 115/69/13.2 kV (526736/526735/526733) transformer circuit 1;** 3 phase fault on the Terry County (526735) to LG-DOCWEBR (526506) 69 kV line circuit 1, near Swisher. a. Apply fault at the Terry County 69 kV bus. b. Clear fault after 5 cycles by tripping the faulted line
166	FLT166-3PH	3 phase fault on the Bailey County (525028) to Curry (524822) 115 kV line circuit 1, near Bailey County. a. Apply fault at the Bailey County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
167	FLT167-3PH	3 phase fault on the Bailey County 115/69/13.2 kV (525028/525027/525025) transformer circuit 1, near Bailey County 115 kV. a. Apply fault at the Bailey County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
168	FLT168-3PH	3 phase fault on the Bailey County (525028) to EMU&VLY Tap (525019) 115 kV line circuit 1, near Bailey County. a. Apply fault at the Bailey County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
169	FLT169-3PH	3 phase fault on the Curry (524822) to DS#20 (524669) 115 kV line circuit 1, near Curry. a. Apply fault at the Curry 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
170	FLT170-3PH	3 phase fault on the Curry (524822) to Norris Tap (524764) 115 kV line circuit 1, near Curry. a. Apply fault at the Curry 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
171	FLT171-3PH	3 phase fault on the Curry (524822) to E_Clovis (524773) 115 kV line circuit 1, near Curry. a. Apply fault at the Curry 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
172	FLT172-3PH	3 phase fault on the Curry (524822) to FE_Clovis2 (524838) 115 kV line circuit 1, near Curry. a. Apply fault at the Curry 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
173	FLT173-3PH	3 phase fault on the Curry (524822) to Roosevelt (524908) 115 kV line circuit 2, near Curry. a. Apply fault at the Curry 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
174	FLT174-3PH	3 phase fault on the Curry 115/69/13.2 kV (524822/524821/524819) transformer circuit 1, near Curry 115 kV. a. Apply fault at the Curry 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
175	FLT175-3PH	3 phase fault on the EMU&VLY Tap (525019) to Plant X (525480) 115 kV line circuit 1, near EMU&VLY Tap. a. Apply fault at the EMU&VLY Tap 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
176	FLT176-3PH	3 phase fault on the EMU&VLY Tap (525019) to EMULESH&VLY (525019) 115 kV line circuit 1, near EMU&VLY Tap. a. Apply fault at the EMU&VLY Tap 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
177	FLT177-SB	**Single phase fault with stuck breaker at Curry 115 kV (524822)** a. Apply fault at the Curry 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Curry (524822) – Bailey County (525028) 115 kV d. Curry (524822) – FE-Clovis (524838) 115 kV
178	FLT178-SB	**Single phase fault with stuck breaker at Curry 115 kV (524822)** a. Apply fault at the Curry 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Curry (524822) – Norris TP (524764) 115 kV d. Curry (524822) – Bailey County (525028) 115 kV
179	FLT179-SB	**Single phase fault with stuck breaker at Curry 115 kV (524822)** a. Apply fault at the Curry 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Curry (524822) – Roosevelt (524908) 115 kV d. Curry (524822) – FE-Clovis (524838) 115 kV
180	FLT180-SB	**Single phase fault with stuck breaker at Curry 115 kV (524822)** a. Apply fault at the Curry 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Curry (524822) –DS#20 (524669) 115 kV d. Curry (524822) – FE-Clovis (524838) 115 kV
181	FLT181-SB	**Single phase fault with stuck breaker at Bailey County 115 kV (525028)** a. Apply fault at the Bailey County 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Bailey County (525028) – EMU&VLY Tap (525019) 115 kV d. Bailey County (525028) – Curry (524822) 115 kV
182	FLT182-SB	**Single phase fault with stuck breaker at Bailey County 115 kV (525028)** a. Apply fault at the Bailey County 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Bailey County 115/69/13.2 kV (525028/525027/525025) transformer d. Bailey County (525028) – Curry (524822) 115 kV
183	FLT183-PO	**Prior Outage of Bailey County 115 kV (525028) to EMU&VLY Tap 115 kV (525019) circuit 1;** 3 phase fault on Bailey County 115 kV (525028) to Curry 115 kV (524822) circuit 1, near Bailey County. a. Apply fault at the Bailey County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
184	FLT184-PO	**Prior Outage of Bailey County 115 kV (525028) to EMU&VLY Tap 115 kV (525019) circuit 1;** 3 phase fault on Bailey County 115/69/13.2 kV (525028/525027/525025) transformer circuit 1, near Bailey County. a. Apply fault at the Bailey County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
185	FLT185-PO	**Prior Outage of Roosevelt 115 kV (524908) to Curry 115 kV (524822) circuit 1;** 3 phase fault on Curry 115 kV (524822) to Bailey County 115 kV (525028) circuit 1, near Curry. a. Apply fault at the Curry 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line
186	FLT186-PO	**Prior Outage of Roosevelt 115 kV (524908) to Curry 115 kV (524822) circuit 1;** 3 phase fault on Curry 115 kV (524822) to DS#20 115 kV (524669) circuit 1, near Curry. a. Apply fault at the Curry 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line
187	FLT187-PO	**Prior Outage of Bailey County 115 kV (525028) to Curry 115 kV (524822) circuit 1;** 3 phase fault on Bailey County 115 kV (525028) to EMU&VLY Tap (525019) cicuit 1, near Bailey County. a. Apply fault at the Bailey County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
188	FLT188-PO	**Prior Outage of Bailey County 115 kV (525028) to Curry 115 kV (524822) circuit 1;** 3 phase fault on Bailey County 115/69/13.2 kV (525028/525027/525025) transformer circuit 1, near Bailey County. a. Apply fault at the Bailey County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
189	**Remove**	3 phase fault on the G16-120-Tap (587964) to Crawfish Draw (560022) 345 kV line circuit 1, near G16-120-Tap. a. Apply fault at the G16-120-Tap 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
190	FLT190-3PH	3 phase fault on the Crawfish Draw (560022) to Border (515458) 345 kV line circuit 1, near Crawfish Draw. a. Apply fault at the Crawfish Draw 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
191	FLT191-3PH	3 phase fault on the Crawfish Draw (560022) to OKU (511456) 345 kV line circuit 1, near Crawfish Draw. a. Apply fault at the Crawfish Draw 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
192	FLT192-3PH	3 phase fault on the Tuco 345/230/13.2 kV (525832/525830/525824) transformer circuit 1, near Tuco 345 kV bus. a. Apply fault at the Tuco 345 kV bus. b. Clear fault after 5 cycles by tripping the transformer
193	FLT193-3PH	3 phase fault on the OKU (511456) to Oklaun (599891) 345 kV line circuit 1, near OKU. a. Apply fault at the OKU 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line and remove the fault. c. Block the DC tie at OKU.
194	**Removed**	3 phase fault on the Tuco (525832) to Yoakum (526936) 345 kV line circuit 1, near Tuco. a. Apply fault at the Tuco 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
195	FLT195-3PH	3 phase fault on the OKU (511456) to L.E.S (511468) 345 kV line circuit 1, near OKU. a. Apply fault at the OKU 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
196	FLT196-3PH	3 phase fault on the Tuco (525830) to Crawfish Draw (560021) 230 kV line circuit 1, near Tuco. a. Apply fault at the Tuco 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
197	FLT197-3PH	3 phase fault on the Tuco (525830) to Jones (526337) 230 kV line circuit 1, near Tuco. a. Apply fault at the Tuco 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
198	FLT198-3PH	3 phase fault on the Tuco (525830) to Antelope (525840) 230 kV line circuit 1, near Tuco. a. Apply fault at the Tuco 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
199	FLT199-3PH	3 phase fault on the Tuco (525830) to Tolk East (525524) 230 kV line circuit 1, near Tuco. a. Apply fault at the Tuco 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
200	FLT200-3PH	3 phase fault on the Tuco (525830) to Carlisle (526161) 230 kV line circuit 1, near Tuco. a. Apply fault at the Tuco 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
201	FLT201-3PH	3 phase fault on the Woodward (515375) to Thistle (539801) 345 kV line circuit 1, near Woodward. a. Apply fault at the Woodward 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
202	FLT202-3PH	3 phase fault on the Woodward (515375) to G16-003-Tap (560071) 345 kV line circuit 1, near Woodward. a. Apply fault at the Woodward 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
203	FLT203-3PH	3 phase fault on the Woodward (515375) to Tatonga (515407) 345 kV line circuit 1, near Woodward. a. Apply fault at the Woodward 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
204	FLT204-3PH	3 phase fault on the Woodward (515375) to G07621119-20 (515599) 345 kV line circuit 1, near Woodward. a. Apply fault at the Woodward 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
205	FLT205-3PH	3 phase fault on the Woodward 345/138/13.2 kV (515375/515376/515795) transformer circuit 1, near Woodward. a. Apply fault at the Woodward 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
206	FLT206-SB	**Single phase fault with stuck breaker at Tuco (525832)** a. Apply fault at the Tuco 345 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Tuco 345/230/13.2 kV (525832/525830/525824) transformer d. Tuco (525832) – Crawfish Draw (560022) 345 kV
207	**Removed**	**Single phase fault with stuck breaker at Tuco (525832)** a. Apply fault at the Tuco 345 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Tuco 345/230/13.2 kV (525832/525830/525824) transformer d. Tuco (525832) – OKU (511456) 345 kV
208	**Removed**	**Single phase fault with stuck breaker at Tuco (525832)** a. Apply fault at the Tuco 345 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Tuco (525832) – G16-120-Tap (587964) 345 kV d. Tuco (525832) – OKU (511456) 345 kV
209	FLT209-SB	**Single phase fault with stuck breaker at Woodward (515375)** a. Apply fault at the Woodward 345 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Woodward (515375) – Thistle (539801) 345 kV d. Woodward (515375) – Tatonga (515407) 345 kV
210	FLT210-SB	**Single phase fault with stuck breaker at Woodward (515375)** a. Apply fault at the Woodward 345 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Woodward (515375) – G07621119-20 (515599) 345 kV d. Woodward (515375) – G16-003-Tap (515407) 345 kV

Cont. No.	Cont. Name	Description
211	FLT211-SB	**Single phase fault with stuck breaker at Woodward (515375)** a. Apply fault at the Woodward 345 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Woodward (515375) – Tatonga (515407) 345 kV d. Woodward (515375) – Border (515458) 345 kV
212	FLT212-PO	**Prior Outage of the Tuco 345/230/13.2 kV (525832/525830/525824) transformer circuit 1;** 3 phase fault on the Tuco (525832) to Border (515458) 345 kV line circuit 1, near Tuco. a. Apply fault at the Tuco 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
213	FLT213-PO	**Prior Outage of the Tuco 345/230/13.2 kV (525832/525830/525824) transformer circuit 1;** 3 phase fault on the Tuco (525832) to Crawfish Draw (560022) 345 kV line circuit 1, near Tuco. a. Apply fault at the Tuco 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
214	**Removed**	**Prior Outage of the Tuco (525832) to G16-120-Tap (587964) 345 kV line circuit 1;** 3 phase fault on the Woodward (515375) to Tatonga (515407) 345 kV line circuit 1, near Woodward. a. Apply fault at the Woodward 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
215	**Removed**	**Prior Outage of the Tuco (525832) to G16-120-Tap (587964) 345 kV line circuit 1;** 3 phase fault on the Woodward (515375) to Thistle (539801) 345 kV line circuit 1, near Woodward. a. Apply fault at the Woodward 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
216	**Removed**	**Prior Outage of the Tuco (525832) to G16-120-Tap (587964) 345 kV line circuit 1;** 3 phase fault on the Woodward (515375) to G07621119-20 (515599) 345 kV line circuit 1, near Woodward. a. Apply fault at the Woodward 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
217	**Removed**	**Prior Outage of the Border (515458) to G16-120-Tap (587964) 345 kV line circuit 1;** 3 phase fault on the Tuco (525832) to Crawfish Draw (560022) 345 kV line circuit 1, near Tuco. a. Apply fault at the Tuco 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
218	**Removed**	**Prior Outage of the Border (515458) to G16-120-Tap (587964) 345 kV line circuit 1;** 3 phase fault on the Tuco 345/230/13.2 kV (525832/525830/525824) transformer circuit 1, near Tuco 345 kV bus. a. Apply fault at the Tuco 345 kV bus. b. Clear fault after 5 cycles by tripping the transformer
219	FLT219-3PH	3 phase fault on the Roadrunner (528025) to Red Bluff (528017) 115 kV line circuit 1, near Roadrunner. a. Apply fault at the Roadrunner 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
220	FLT220-3PH	3 phase fault on the Roadrunner (528025) to Battle Axe (528040) 115 kV line circuit 1, near Roadrunner. a. Apply fault at the Roadrunner 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
221	FLT221-3PH	3 phase fault on the Roadrunner (528025) to Agave Hills (528230) 115 kV line circuit 1, near Roadrunner. a. Apply fault at the Roadrunner 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
222	FLT222-3PH	3 phase fault on the Roadrunner 345/115/13.2 kV (528025/528027/528023) transformer circuit 1, near Roadrunner. a. Apply fault at the Roadrunner 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
223	FLT223-3PH	3 phase fault on the Roadrunner (528027) to Kiowa (527965) 345 kV line circuit 1, near Roadrunner (17W fault is Roadrunner to Potash JCT (527963) 230 kV). a. Apply fault at the Roadrunner 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
224	FLT224-3PH	3 phase fault on the Potash Junction (527963) to Cunningham (527865) 230 kV line circuit 1, near Potash Junction. a. Apply fault at the Potash Junction 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
224	FLT225-3PH (17W)	3 phase fault on the Potash Junction (527963) to Pecos (528179) 230 kV line circuit 1, near Potash Junction. a. Apply fault at the Potash Junction 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
225	FLT225-3PH (18S, 26S)	3 phase fault on the Kiowa (527965) to North Loving (528185) 345 kV line circuit 1, near Kiowa. a. Apply fault at the Kiowa 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
226	FLT226-3PH (17W)	3 phase fault on the Potash Junction 230/115/13.2 kV (527963/527962/527958) transformer circuit 1, near Potash Junction. a. Apply fault at the Potash Junction 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
226	FLT226-3PH (18S, 26S)	3 phase fault on the Kiowa 345/115/13.2 kV (527965/527962/527964) transformer circuit 1, near Kiowa. a. Apply fault at the Kiowa 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
227	FLT227-3PH	3 phase fault on the Ponderosa Tap (528239) to Ochoa (528232) 115 kV line circuit 1, near Ponderosa Tap. a. Apply fault at the Ponderosa Tap 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
228	FLT228-3PH	3 phase fault on the Red Bluff (528018) to Wolf Camp Tap (528235) 115 kV line circuit 1, near Red Bluff. a. Apply fault at the Red Bluff 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
229	FLT229-3PH	3 phase fault on the Red Bluff (528018) to Sand Dunes (528016) 115 kV line circuit 1, near Red Bluff. a. Apply fault at the Red Bluff 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
230	FLT230-SB	**Single phase fault with stuck breaker at Roadrunner (528025)** a. Apply fault at the Roadrunner 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Roadrunner (528025) – Red Bluff (528018) 115 kV d. Roadrunner (528025) – Agave Hills (528230) 115 kV
231	FLT231-SB	**Single phase fault with stuck breaker at Roadrunner (528025)** a. Apply fault at the Roadrunner 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Roadrunner 345/115/13.2 kV (528025/528027/528023) transformer d. Roadrunner (528025) – Agave Hills (528230) 115 kV
232	FLT232-SB	**Single phase fault with stuck breaker at Roadrunner (528025)** a. Apply fault at the Roadrunner 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Roadrunner 345/115/13.2 kV (528025/528027/528023) transformer d. Roadrunner (528025) – Battle Axe (528040) 115 kV
233	FLT233-PO	**Prior Outage of the Roadrunner (528025) to Agave Hill (528230) 115 kV line circuit 1;** 3 phase fault on the Roadrunner (528025) to Battle Axe (528040) 115 kV line circuit 1, near Roadrunner. a. Apply fault at the Roadrunner 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
234	FLT234-PO	**Prior Outage of the Roadrunner (528025) to Agave Hill (528230) 115 kV line circuit 1;** 3 phase fault on the Roadrunner (528025) to Red Bluff (528018) 115 kV line circuit 1, near Roadrunner. a. Apply fault at the Roadrunner 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
235	FLT235-PO	**Prior Outage of the Roadrunner (528025) to Agave Hill (528230) 115 kV line circuit 1;** 3 phase fault on the Roadrunner 345/115/13.2 kV (528025/528027/528023) transformer circuit 1, near Roadrunner. a. Apply fault at the Roadrunner 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
236	FLT236-PO	**Prior Outage of the Roadrunner (528025) to Red Bluff (528018) 115 kV line circuit 1;** 3 phase fault on the Roadrunner (528025) to Battle Axe (528040) 115 kV line circuit 1, near Roadrunner. a. Apply fault at the Roadrunner 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
237	FLT237-PO	**Prior Outage of the Roadrunner (528025) to Red Bluff (528018) 115 kV line circuit 1;** 3 phase fault on the Roadrunner (528025) to Agave Hill (528230) 115 kV line circuit 1, near Roadrunner. a. Apply fault at the Roadrunner 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
238	FLT238-PO	**Prior Outage of the Roadrunner (528025) to Red Bluff (528018) 115 kV line circuit 1;** 3 phase fault on the Roadrunner 345/115/13.2 kV (528025/528027/528023) transformer circuit 1, near Roadrunner. a. Apply fault at the Roadrunner 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
239	FLT239-3PH	3 phase fault on the Crossroads (527656) to Tolk (525549) 345 kV line circuit 1, near Crossroads. a. Apply fault at the Crossroads 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
240	FLT240-3PH	3 phase fault on the Crossroads (527656) to Roosevelt East (527655) 345 kV line circuit 1, near Crossroads. a. Apply fault at the Crossroads 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
241	FLT241-3PH	3 phase fault on the Crossroads (527656) to Eddy County (527802) 345 kV line circuit 1, near Crossroads. a. Apply fault at the Crossroads 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
242	FLT242-3PH	3 phase fault on the Tolk East (525524) to Roosevelt (524911) 230 kV line circuit 1, near Tolk East. a. Apply fault at the Tolk East 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
243	FLT243-3PH	3 phase fault on the Roosevelt East (527655) to Roosevelt West (527654) 345 kV line circuit 1, near Roosevelt East. a. Apply fault at the Roosevelt East 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
244	FLT244-3PH	3 phase fault on the Eddy North (527799) to 7-Rivers (528095) 230 kV line circuit 1, near Eddy North. a. Apply fault at the Eddy North 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
245	FLT245-3PH	3 phase fault on the Eddy North (527799) to Cunningham (527865) 230 kV line circuit 1, near Eddy North. a. Apply fault at the Eddy North 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
246	FLT246-3PH	3 phase fault on the Eddy North (527799) to Chaves County (527483) 230 kV line circuit 1, near Eddy North. a. Apply fault at the Eddy North 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
247	FLT247-3PH	3 phase fault on the Eddy North 230/115/13.2 kV (527799/527798/527797) transformer circuit 1, near Eddy North. a. Apply fault at the Eddy North 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
248	FLT248-SB	**Single phase fault with stuck breaker at Crossroads (527656)** a. Apply fault at the Crossroads 345 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Crossroads (527656) – Tolk (525549) 345 kV d. Roadrunner (528025) – Roosevelt East (527655) 345 kV
249	FLT249-SB	**Single phase fault with stuck breaker at Crossroads (527656)** a. Apply fault at the Crossroads 345 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Crossroads (527656) – Tolk (525549) 345 kV d. Roadrunner (528025) – Eddy County (527802) 345 kV
250	FLT250SB	**Single phase fault with stuck breaker at Crossroads (527656)** a. Apply fault at the Crossroads 345 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Crossroads (527656) – Eddy County (527802) 345 kV d. Roadrunner (528025) – Roosevelt East (527655) 345 kV
251	FLT251-PO	**Prior Outage of the Crossroads (527656) to Tolk (525549) 345 kV line circuit 1;** 3 phase fault on the Crossroads (527656) to Eddy County (527802) 345 kV line circuit 1, near Crossroads. a. Apply fault at the Crossroads 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
252	FLT252-PO	**Prior Outage of the Crossroads (527656) to Tolk (525549) 345 kV line circuit 1;** 3 phase fault on the Crossroads (527656) to Roosevelt East (527655) 345 kV line circuit 1, near Crossroads. a. Apply fault at the Crossroads 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
253	FLT253-PO	**Prior Outage of the Crossroads (527656) to Eddy County (527802) 345 kV line circuit 1;** 3 phase fault on the Crossroads (527656) to Tolk (525549) 345 kV line circuit 1, near Crossroads. a. Apply fault at the Crossroads 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
254	FLT254-PO	**Prior Outage of the Crossroads (527656) to Eddy County (527802) 345 kV line circuit 1;** 3 phase fault on the Crossroads (527656) to Roosevelt East (527655) 345 kV line circuit 1, near Crossroads. a. Apply fault at the Crossroads 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
255	FLT255-PO	**Prior Outage of the Crossroads (527656) to Roosevelt East (527655) 345 kV line circuit 1;** 3 phase fault on the Crossroads (527656) to Eddy County (527802) 345 kV line circuit 1, near Crossroads. a. Apply fault at the Crossroads 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
256	FLT256-PO	**Prior Outage of the Crossroads (527656) to Roosevelt East (527655) 345 kV line circuit 1;** 3 phase fault on the Crossroads (527656) to Tolk (525549) 345 kV line circuit 1, near Crossroads. a. Apply fault at the Crossroads 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
257	**Removed**	3 phase fault on the Hobbs (527896) to Yoakum (526936) 345 kV line circuit 1, near Hobbs. a. Apply fault at the Hobbs 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
258	**Removed**	3 phase fault on the Hobbs (527896) to Kiowa (527965) 345 kV line circuit 1, near Hobbs. a. Apply fault at the Hobbs 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
259	**Removed**	3 phase fault on the Hobbs 345/230/13.2 kV (527896/527894/527895) transformer circuit 1, near Hobbs. a. Apply fault at the Hobbs 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
260	**Removed**	3 phase fault on the Hobbs (527896) to Gaines Gen Tap (528611) 345 kV line circuit 1, near Hobbs. a. Apply fault at the Hobbs 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
261	**Removed**	3 phase fault on the Yoakum (526936) to Hobbs (527896) 345 kV line circuit 1, near Yoakum. a. Apply fault at the Yoakum 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
262	**Removed**	3 phase fault on the Gaines Gen Tap (528611) to Andrews (528604) 345 kV line circuit 1, near Hobbs. a. Apply fault at the Hobbs 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
263	**Removed**	3 phase fault on the Gaines Gen Tap (528611) to Andrews (528604) 345 kV line circuit 1, near Hobbs. a. Apply fault at the Hobbs 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
264	FLT264-3PH	3 phase fault on the G1579&G1580T (560059) to Yoakum (526935) 230 kV line circuit 1, near G1579&G1580T. a. Apply fault at the G1579&G1580T 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
265	FLT265-3PH	3 phase fault on the G1579&G1580T (560059) to Hobbs (527894) 230 kV line circuit 1, near G1579&G1580T. a. Apply fault at the G1579&G1580T 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
266	FLT266-SB	**Single phase fault with stuck breaker at Hobbs (527894) 230 kV** a. Apply fault at the Hobbs 230 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Hobbs (527894) – Cunningham (527867) 230 kV d. Hobbs 230/115/13.2 kV (527894/527891/527889) transformer
267	FLT267-SB	**Single phase fault with stuck breaker at Hobbs (527894) 230 kV** a. Apply fault at the Hobbs 230 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Hobbs (527894) – G1579&G1580T (560059) 230 kV d. Hobbs 230/115/13.2 kV (527894/527891/527889) transformer
268	FLT268-SB	**Single phase fault with stuck breaker at Hobbs (527894) 230 kV** a. Apply fault at the Hobbs 230 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Hobbs (527894) – G1579&G1580T (560059) 230 kV d. Hobbs (527894) – Cunningham (527867) 230 kV

Cont. No.	Cont. Name	Description
269	**Removed**	**Single phase fault with stuck breaker at Hobbs (527896) 345 kV** a. Apply fault at the Hobbs 345 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Hobbs (527896) – Yoakum (526936) 345 kV d. Hobbs (527896) – Kiowa (527965) 345 kV
270	FLT270-PO	**Prior Outage of the Hobbs (527894) to Cunningham (527865) 230 kV line circuit 1;** 3 phase fault on the Hobbs 230/115/13.2 kV (527894/527891/527890) transformer 1, near Hobbs. a. Apply fault at the Hobbs 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
271	FLT271-PO	**Prior Outage of the Hobbs (527894) to Cunningham (527865) 230 kV line circuit 1;** 3 phase fault on the G1579&G1580T (560059) to Hobbs (527894) 230 kV line circuit 1, near G1579&G1580T. a. Apply fault at the G1579&G1580T 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
272	FLT272-PO	**Prior Outage of the Hobbs (527894) to Cunningham (527865) 230 kV line circuit 1;** 3 phase fault on the G1579&G1580T (560059) to Yoakum (526935) 230 kV line circuit 1, near G1579&G1580T. a. Apply fault at the G1579&G1580T 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
273	FLT273-PO	**Prior Outage of the Hobbs (527894) to Andrews (528604) 230 kV line circuit 1;** 3 phase fault on the Hobbs 230/115/13.2 kV (527894/527891/527890) transformer 1, near Hobbs. a. Apply fault at the Hobbs 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
274	FLT274-PO	**Prior Outage of the Hobbs (527894) to Andrews (528604) 230 kV line circuit 1;** 3 phase fault on the G1579&G1580T (560059) to Hobbs (527894) 230 kV line circuit 1, near G1579&G1580T. a. Apply fault at the G1579&G1580T 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
275	FLT275-PO	**Prior Outage of the Hobbs (527894) to Andrews (528604) 230 kV line circuit 1;** 3 phase fault on the G1579&G1580T (560059) to Yoakum (526935) 230 kV line circuit 1, near G1579&G1580T. a. Apply fault at the G1579&G1580T 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
276	**Removed**	**Prior Outage of the Hobbs (527894) to Yoakum (526936) 345 kV line circuit 1;** 3 phase fault on the Hobbs (527896) to Kiowa (527965) 345 kV line circuit 1, near Hobbs. a. Apply fault at the Hobbs 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
277	**Removed**	**Prior Outage of the Hobbs (527894) to Yoakum (526936) 345 kV line circuit 1;** 3 phase fault on the Hobbs 345/230/13.2 kV (527896/527894/527895) transformer circuit 1, near Hobbs. a. Apply fault at the Hobbs 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
278	**Removed**	**Prior Outage of the Hobbs (527894) to Kiowa (527965) 345 kV line circuit 1;** 3 phase fault on the Hobbs (527896) to Yoakum (526936) 345 kV line circuit 1, near Hobbs. a. Apply fault at the Hobbs 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
279	**Removed**	**Prior Outage of the Hobbs (527894) to Kiowa (527965) 345 kV line circuit 1;** 3 phase fault on the Hobbs 345/230/13.2 kV (527896/527894/527895) transformer circuit 1, near Hobbs. a. Apply fault at the Hobbs 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
280	FLT280-3PH	3 phase fault on the Newhart (525460) to Kress (525192) 115 kV line circuit 1, near Newhart. a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
281	FLT281-3PH	3 phase fault on the Newhart (525460) to Castro County (524746) 115 kV line circuit 1, near Newhart. a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
282	FLT282-3PH	3 phase fault on the Newhart (525460) to Hart Industries (525124) 115 kV line circuit 1, near Newhart. a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
283	FLT283-3PH	3 phase fault on the Newhart 230/115/13.2 kV (525460/525461/525459) transformer circuit 1, near Newhart. a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
284	FLT284-3PH	3 phase fault on the Newhart (525461) to Swisher (525461) 230 kV line circuit 1, near Newhart. a. Apply fault at the Newhart 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
285	FLT285-3PH	3 phase fault on the Newhart (525461) to Plant X (525481) 230 kV line circuit 1, near Newhart. a. Apply fault at the Newhart 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
286	FLT286-3PH	3 phase fault on the Newhart (525461) to Potter County (523959) 230 kV line circuit 1, near Newhart. a. Apply fault at the Newhart 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
287	FLT287-3PH	3 phase fault on the Castro County (524746) to DS#21 (524734) 115 kV line circuit 1, near Castro County. a. Apply fault at the Castro County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
288	FLT288-3PH	3 phase fault on the Castro County (524746) to Bethel Col (524757) 115 kV line circuit 1, near Castro County. a. Apply fault at the Castro County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
289	FLT289-3PH	3 phase fault on the Castro County (524746) to DS#22 (534694) 115 kV line circuit 1, near Castro County. a. Apply fault at the Castro County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
290	FLT290-3PH	3 phase fault on the Castro County (524746) to BC-Kelly (525050) 115 kV line circuit 1, near Castro County. a. Apply fault at the Castro County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
291	FLT291-3PH	3 phase fault on the Castro County 115/69/13.2 kV (524746/524745/524744) transformer circuit 1, near Castro County. a. Apply fault at the Castro County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
292	FLT292-SB	**Single phase fault with stuck breaker at Newhart (525460) 115 kV** a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Newhart (525460) – Kress (525192) 115 kV d. Newhart 230/115/13.2 kV (525461/565460/525459) transformer
293	FLT293-SB	**Single phase fault with stuck breaker at Newhart (525460) 115 kV** a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Newhart (525460) – Hart Industries (525124) 115 kV d. Newhart (525460) – Castro County (524746) 115 kV
294	FLT294-SB	**Single phase fault with stuck breaker at Castro County (524746) 115 kV** a. Apply fault at the Castro County 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Castro County (524746) – DS#21 (524734) 115 kV d. Castro County (524746) – DS#22 (524694) 115 kV
295	FLT295-SB	**Single phase fault with stuck breaker at Castro County (524746) 115 kV** a. Apply fault at the Castro County 115 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Castro County (524746) – Bethel Col (524757) 115 kV d. Castro County (524746) – BC-Kelly (525050) 115 kV

Cont. No.	Cont. Name	Description
296	FLT296-PO	**Prior Outage of the Newhart (525460) to Hart Industries (525124) 115 kV line circuit 1;** 3 phase fault on the Newhart (525460) to Castro County (524746) 115 kV line circuit 1, near Newhart. a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
297	FLT297-PO	**Prior Outage of the Newhart (525460) to Hart Industries (525124) 115 kV line circuit 1;** 3 phase fault on the Newhart (525460) to Kress (525192) 115 kV line circuit 1, near Castro County. a. Apply fault at the Castro County 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
298	FLT298-PO	**Prior Outage of the Newhart (525460) to Hart Industries (525124) 115 kV line circuit 1;** 3 phase fault on the Newhart 230/115/13.2 kV (525460/525461/525459) transformer circuit 1, near Newhart. a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
299	FLT299-PO	**Prior Outage of the Newhart (525460) to Castro County (524746) 115 kV line circuit 1;** 3 phase fault on the Newhart (525460) to Hart Industries (525124) 115 kV line circuit 1, near Newhart. a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
300	FLT300-PO	**Prior Outage of the Newhart (525460) to Castro County (524746) 115 kV line circuit 1;** 3 phase fault on the Newhart (525460) to Kress (525192) 115 kV line circuit 1, near Newhart. a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
301	FLT301-PO	**Prior Outage of the Newhart (525460) to Castro County (524746) 115 kV line circuit 1;** 3 phase fault on the Newhart 230/115/13.2 kV (525460/525461/525459) transformer circuit 1, near Newhart. a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
302	FLT302-PO	**Prior Outage of the Newhart 230/115/13.2 kV (525461/525460/525459) transformer circuit 1;** 3 phase fault on the Newhart (525460) to Hart Industries (525124) 115 kV line circuit 1, near Newhart. a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
303	FLT303-PO	**Prior Outage of the Newhart 230/115/13.2 kV (525461/525460/525459) transformer circuit 1;** 3 phase fault on the Newhart (525460) to Kress (525192) 115 kV line circuit 1, near Newhart. a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
304	FLT304-PO	**Prior Outage of the Newhart 230/115/13.2 kV (525461/525460/525459) transformer circuit 1;** 3 phase fault on the Newhart (525460) to Castro County (524746) 115 kV line circuit 1, near Newhart. a. Apply fault at the Newhart 115 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
305	FLT305-3PH	3 phase fault on the Crawfish Draw (560022) to Border (515458) 345 kV line circuit 1, near Crawfish Draw. a. Apply fault at the Crawfish Draw 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
306	FLT306-3PH	3 phase fault on the Crawfish Draw (560022) to Tuco (525832) 345 kV line circuit 1, near Crawfish Draw. a. Apply fault at the Crawfish Draw 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
307	FLT307-3PH	3 phase fault on the Crawfish 345/230/13.2 kV (560022/560021/560023) transformer circuit 1, near Crawfish Draw. a. Apply fault at the Crawfish Draw 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
308	**Removed**	3 phase fault on the Crawfish 765/345 kV (560100/560022) transformer circuit 1, near Crawfish Draw. a. Apply fault at the Crawfish Draw 765 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
309	**Removed**	3 phase fault on the Crawfish Draw (560100) to Crawfish Draw Tap (560103) 765 kV line circuit 1, near Crawfish Draw. a. Apply fault at the Crawfish Draw 765 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
310	**Removed**	3 phase fault on the Crawfish Draw Tap (560103) to Seminole (560101) 765 kV line circuit 1, near Seminole. a. Apply fault at the Seminole 765 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
311	**Removed**	3 phase fault on the Seminole 765/345 kV (560100/560022) transformer circuit 1, near Seminole. a. Apply fault at the Seminole 765 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
312	FLT312-3PH	3 phase fault on the Crawfish Draw (560021) to Tuco (525830) 230 kV line circuit 1, near Crawfish Draw. a. Apply fault at the Crawfish Draw 230 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
313	FLT313-SB	**Single phase fault with stuck breaker at Crawfish Draw (560022) 345 kV** a. Apply fault at the Crawfish Draw 345 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Crawfish Draw (560021) – Border (515458) 345 kV d. Crawfish Draw (560021) – Tolk (525549) 345 kV
314	FLT314-SB	**Single phase fault with stuck breaker at Crawfish Draw (560022) 345 kV** a. Apply fault at the Crawfish Draw 345 kV bus. b. Clear fault after 16 cycles and trip the following elements c. Crawfish Draw (560021) – Tuco (525832) 345 kV d. Crawfish Draw (560021) – Tolk (525549) 345 kV
315	**Removed**	**Prior Outage of the Crawfish Draw (560100) to Crawfish Draw Tap (560103) 765 kV line circuit 1;** 3 phase fault on the Crawfish Draw Tap (560103) to Seminole (560101) 765 kV line circuit 2, near Crawfish Draw. a. Apply fault at the Crawfish Draw 765 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
316	FLT316-3PH	3 phase fault on the Potter County (523961) to Tolk (525549) 345 kV line circuit 1, near Potter County. a. Apply fault at the Potter County 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
317	**Removed**	3 phase fault on the Potter County (523961) to Grapevine (560035) 345 kV line circuit 1, near Potter County. a. Apply fault at the Potter County 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
318	FLT318-3PH	3 phase fault on the Potter County (523961) to Hitchland (523097) 345 kV line circuit 1, near Potter County. a. Apply fault at the Potter County 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
319	FLT319-3PH	3 phase fault on the Potter County 345/230/13 kV (523961/523959/523957) transformer circuit 1, near Potter County. a. Apply fault at the Potter County 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
320	**Removed**	3 phase fault on the Chisholm (511553) to Grapevine (560035) 345 kV line circuit 1, near Chisholm. a. Apply fault at the Chisholm 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
321	FLT321-3PH	3 phase fault on the Chisholm (511553) to Border (515458) 345 kV line circuit 1, near Chisholm. a. Apply fault at the Chisholm 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
322	FLT322-3PH	3 phase fault on the Chisholm (511553) to G16-037-Tap (560078) 345 kV line circuit 1, near Chisholm. a. Apply fault at the Chisholm 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
323	FLT323-3PH	3 phase fault on the Border (515458) to Chisholm (511553) 345 kV line circuit 1, near Border. a. Apply fault at the Border 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
324	FLT324-3PH	3 phase fault on the Border (515458) to Woodward (515375) 345 kV line circuit 1, near Border. a. Apply fault at the Border 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
325	FLT325-PO	**Prior Outage of the Potter County (523961) to Hitchland (523097) 345 kV line circuit 1;** 3 phase fault on the Potter County (523961) to Tolk (525549) 345 kV line circuit 1, near Potter County. a. Apply fault at the Potter County 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
326	**Removed**	**Prior Outage of the Crawfish Draw (560100) to Crawfish Draw Tap (560103) 765 kV line circuit 1;** 3 phase fault on the Potter County (523961) to Grapevine (560035) 345 kV line circuit 1, near Potter County. a. Apply fault at the Potter County 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
327	FLT327-PO	**Prior Outage of the Potter County (523961) to Tolk (525549) 345 kV line circuit 1;** 3 phase fault on the Potter County (523961) to Hitchland (523097) 345 kV line circuit 1, near Potter County. a. Apply fault at the Potter County 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
328	**Removed**	**Prior Outage of the Crawfish Draw (560100) to Crawfish Draw Tap (560103)765 kV line circuit 1;** 3 phase fault on the Chisholm (511553) to Grapevine (560035) 345 kV line circuit 1, near Chisholm. a. Apply fault at the Chisholm 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
329	**Removed**	**Prior Outage of the Crawfish Draw (560100) to Crawfish Draw Tap (560103) 765 kV line circuit 1;** 3 phase fault on the Chisholm (511553) to Border (515458) 345 kV line circuit 1, near Chisholm. a. Apply fault at the Chisholm 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
330	**Removed**	**Prior Outage of the Crawfish Draw (560100) to Crawfish Draw Tap (560103)765 kV line circuit 1;** 3 phase fault on the Chisholm (511553) to G16-037-Tap (560078) 345 kV line circuit 1, near Chisholm. a. Apply fault at the Chisholm 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
331	FLT331-PO	**Prior Outage of the Border (515458) to Crawfish Draw (560022) 345 kV line circuit 1;** 3 phase fault on the Border (515458) to Chisholm (511553) 345 kV line circuit 1, near Border. a. Apply fault at the Border 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
332	FLT332-PO	**Prior Outage of the Border (515458) to Crawfish Draw (560022) 345 kV line circuit 1;** 3 phase fault on the Border (515458) to Woodward (515375) 345 kV line circuit 1, near Border. a. Apply fault at the Border 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
333	FLT333-PO	**Prior Outage of the Crawfish Draw (560022) to Tolk (525549) 345 kV line circuit 1;** 3 phase fault on the Crawfish Draw (560022) to Border (515458) 345 kV line circuit 1, near Crawfish Draw. a. Apply fault at the Crawfish Draw 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
334	FLT334-PO	**Prior Outage of the Border (515458) to Crawfish Draw (560022) 345 kV line circuit 1;** 3 phase fault on the Crawfish Draw (560022) to OKU (511456) 345 kV line circuit 1, near Crawfish Draw. a. Apply fault at the Crawfish Draw 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
335	FLT335-PO	**Prior Outage of the Border (515458) to Crawfish Draw (560022) 345 kV line circuit 1;** 3 phase fault on the Crawfish Draw (560022) to Tolk (525549) 345 kV line circuit 1, near Crawfish Draw. a. Apply fault at the Crawfish Draw 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
336	FLT336-PO	**Prior Outage of the Crawfish Draw (560022) to Tuco (525832) 345 kV line circuit 1;** 3 phase fault on the Crawfish Draw (560022) to Tolk (525832) 345 kV line circuit 1, near Crawfish Draw. a. Apply fault at the Crawfish Draw 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
337	**Removed**	**Prior Outage of the Crawfish Draw (560100) to Crawfish Draw Tap (560103) 765 kV line circuit 1;** 3 phase fault on the Crawfish Draw (560022) to G16-120-Tap (587964) 345 kV line circuit 2, near Crawfish Draw. a. Apply fault at the Crawfish Draw 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

Cont. No.	Cont. Name	Description
338	FLT338-PO	**Prior Outage of the Border (515458) to Crawfish Draw (560022) 345 kV line circuit 1;** 3 phase fault on the Crawfish Draw 345/230/13 kV (560022/560021/560023) transformer, near Crawfish Draw. a. Apply fault at the Crawfish Draw 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
339	**Removed**	3 phase fault on the Crawfish Draw (560100) to Crawfish Draw Tap (560103) 765 kV line circuit 1, near Crawfish Draw Tap. a. Apply fault at the Crawfish Draw 765 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
340	**Removed**	3 phase fault on the Seminole (560101) to Crawfish Draw Tap (560103) 765 kV line circuit 1, near Crawfish Draw Tap. a. Apply fault at the Crawfish Draw 765 kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
341	FLT341-3PH	3 phase fault on the Hitchland (523097) to Finney (523853) 345 kV line circuit 1, near Hitchland. a. Apply fault at the Hitchland 345 kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

SECTION 3: STABILITY ANALYSIS

The objective of the Stability Analysis was to determine the impacts of the generator interconnections on the stability and voltage recovery on the SPP transmission system. If problems with stability or voltage recovery were identified, the need for reactive compensation or system upgrades was investigated.

3.1 Approach

SPP provided MEPPI with the following five power flow cases:

- MDWG16-17W_DIS1602_G06
- MDWG16-18S_DIS1602_G06
- MDWG16-26S_DIS1602_G06

The power flow cases above were used in the DISIS-2016-002-1 stability datasets. Each case was examined prior to the Stability Analysis to ensure the case contained any previously queued projects listed in Table 2-3 and previously assigned upgrades. The following transmission elements were implemented in the power flow case:

- Kiowa to Hobbs 345 kV circuit #1
- Eddy County to Kiowa 345 kV circuit #1
- Kiowa 345/115 kV transformer #1
- Convert Potash Junction to Road Runner 230 kV to Kiowa to Road Runner 230 kV circuit #1
- Road Runner 345/115 kV transformer
- Road Runner 115 kV SVC (200/-50 MVAR)
- Kiowa to North Loving 345 kV circuit #1
- North Loving 345/115 kV transformer #1
- Hopi Sub to North Loving 115 kV circuit #1
- China Draw to North Loving 115 kV circuit #1
- China Draw to North Loving 345 kV circuit #1
- China Draw 345/115 kV transformer #1
- China Draw to Wood Draw 115 kV circuit #1
- China Draw 115 kV SVC (200/-50 MVAR)

After implementing and confirming the above transmission elements were implemented and confirmed to be in the case, there was no suspect power flow data in the study area. The dynamic datasets were also verified and stable initial system conditions (i.e., “flat lines”) were achieved. Three-phase and single phase-to-ground faults listed in Table 2-3 were examined. Single-phase fault impedances were calculated for each season to result in a voltage of approximately 60% of

the pre-fault voltage. Refer to Table 3-1 for a list of the calculated single-phase fault impedances utilized.

Table 3-1
Calculated Single-Phase Fault Impedances

Cont. No.*	Cont. Name	Single-Phase Fault Impedance (MVA)		
		2017 Winter	2018 Summer	2026 Summer
14	FLT14_SB	-1375.0	-1375.0	-1375.0
15	FLT15_SB	-1125.0	-1125.0	-1125.0
40	FLT40_SB	-1375.0	-1375.0	-1500.0
41	FLT41_SB	-1375.0	-1375.0	-1500.0
43	FLT43_SB	-1250.0	-1250.0	-1375.0
44	FLT44_SB	-1250.0	-1250.0	-1375.0
60	FLT60_SB	-6062.5	-5656.3	-6062.5
61	FLT61_SB	-6062.5	-5656.3	-6062.5
62	FLT62_SB	-1875.0	-1750.0	-1875.0
63	FLT63_SB	-6062.5	-5656.3	-6062.5
64	FLT64_SB	-6062.5	-5656.3	-6062.5
65	FLT65_SB	-6062.5	-5656.3	-6062.5
92	FLT92_SB	-4031.3	-3828.1	-4437.5
93	FLT93_SB	-4031.3	-3828.1	-4437.5
94	FLT94_SB	-2406.3	-2203.1	-2406.3
95	FLT95_SB	-2101.6	-2101.6	-2406.3
96	FLT96_SB	-2812.5	-2812.5	-3015.6
97	FLT97_SB	-2812.5	-2812.5	-3015.6
98	FLT98_SB	-2812.5	-2812.5	-3015.6
99	FLT99_SB	-2812.5	-2812.5	-3015.6
123	FLT123_SB	-3218.8	-3218.8	-3421.9
124	FLT124_SB	-3218.8	-3218.8	-3421.9
125	FLT125_SB	-3218.8	-3218.8	-3421.9
126	FLT126_SB	-3218.8	-3218.8	-3421.9
127	FLT127_SB	-3421.9	-3421.9	-3421.9
128	FLT128_SB	-3421.9	-3421.9	-3421.9
129	FLT129_SB	-3828.1	-4031.3	-4031.3
130	FLT130_SB	-3828.1	-4031.3	-4031.3
148	FLT148_SB	-2812.5	-2812.5	-2812.5
149	FLT149_SB	-2812.5	-2812.5	-2812.5
150	FLT150_SB	-2812.5	-2812.5	-2812.5
151	FLT151_SB	-1625.0	-1500.0	-1500.0
152	FLT152_SB	-1625.0	-1500.0	-1500.0
164	FLT164_SB	-500.0	-500.0	-562.5
177	FLT177_SB	-1375.0	-1375.0	-1375.0
178	FLT178_SB	-1375.0	-1375.0	-1375.0
179	FLT179_SB	-1375.0	-1375.0	-1375.0
180	FLT180_SB	-1375.0	-1375.0	-1375.0
181	FLT181_SB	-687.5	-625.0	-750.0
182	FLT182_SB	-687.5	-625.0	-750.0
206	FLT206_SB	-8500.0	-8906.3	-10125.0
209	FLT209_SB	-7687.5	-8500.0	-8500.0
210	FLT210_SB	-7687.5	-8500.0	-8500.0
211	FLT211_SB	-7687.5	-8500.0	-8500.0
230	FLT230_SB	-875.0	-1062.5	-1125.0
231	FLT231_SB	-875.0	-1062.5	-1125.0
232	FLT232_SB	-875.0	-1062.5	-1125.0
248	FLT248_SB	-3421.9	-3218.8	-3625.0
249	FLT249_SB	-3421.9	-3218.8	-3625.0
250	FLT250_SB	-3421.9	-3218.8	-3625.0
266	FLT266_SB	-4031.3	-4437.5	-4437.5
267	FLT267_SB	-4031.3	-4437.5	-4437.5
268	FLT268_SB	-4031.3	-4437.5	-4437.5
292	FLT292_SB	-2203.1	-2101.6	-2101.6
293	FLT293_SB	-2203.1	-2101.6	-2101.6
294	FLT294_SB	-1375.0	-1250.0	-1250.0
295	FLT295_SB	-1375.0	-1250.0	-1250.0
313	FLT313_SB	-8500.0	-9312.5	-10125.0
314	FLT314_SB	-8500.0	-9312.5	-10125.0

*Refer to Table 2-3 for a description of the contingency scenerio

Bus voltages, machine rotor angles, and previously queued generation in the study area were monitored in addition to bus voltages and machine rotor angles in the following areas:

- 520 AEPW
- 524 OKGE
- 525 WFEC
- 531 MIDW
- 534 SUNC
- 536 WERE

Requested and previously queued generation outside the above study area was also monitored.

The results of the analysis determined if reactive compensation or system upgrades were required to obtain acceptable system performance. If additional reactive compensation was required, the size, type, and location were determined. The proposed reactive reinforcements would ensure the wind or solar farm meets FERC Order 661A low voltage requirements and return the wind or solar farm to its pre-disturbance operating voltage. If the results indicated the need for fast responding reactive support, dynamic support such as an SVC or STATCOM was investigated.

3.2 Stability Analysis Results

The Stability Analysis determined that there were multiple contingencies across all seasons that resulted in system/voltage instability, generation tripping offline, and poor post-fault voltage recovery when all generation interconnection requests were at 100% output. The 17W case was observed to have many non-damped voltage oscillations for faults throughout the SPP study area. It can be observed that the 18S and 26S case, which have additional projects implemented from 17W, have improved voltage responses.

Refer to Table 3-2 for a summary of the Stability Analysis results for the contingencies listed in Table 2-3. Table 3-2 is a summary of the stability results for the 2017 Winter Peak, 2018 Summer Peak, and 2026 Summer Peak conditions and states whether the system remained stable or generation tripped offline, if acceptable voltage recovery was observed after the fault was cleared, and if the voltage recovered to above 0.9 p.u. and below 1.1 p.u. post fault steady-state conditions. Voltage recovery criteria includes ensuring that the transient voltage recovery is between 0.7 p.u. and 1.2 p.u. and ending in a steady-state voltage (for N-1 contingencies) at the pre-contingent level or at least above 0.9 p.u. and below 1.1. p.u. The results presented here in Table 3-2 do not include the transmission reinforcements identified in Section 3.1.

Refer to Appendix B, Appendix C, and Appendix D for a complete set of plots for all contingencies for 2017 Winter Peak, 2018 Summer Peak, and 2026 Summer Peak conditions, respectively.

Table 3-2
Stability Analysis Summary of Results for 2017 Winter, 2018 Summer, and 2026 Summer Peak Conditions

Cont. No.	Cont. Name	2017 Winter Peak				2018 Summer Peak				2026 Summer Peak			
		Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability
		Less than 0.70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.		
1	FLT01-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
2	FLT02-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
3	FLT03-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
4	FLT04-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
5	FLT05-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
14	FLT14-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
15	FLT15-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
19	FLT19-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
20	FLT20-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
21	FLT21-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
22	FLT22-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
23	FLT23-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
24	FLT24-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
26	FLT26-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
27	FLT27-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
28	FLT28-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
29	FLT29-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
30	FLT30-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
31	FLT31-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
32	FLT32-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
33	FLT33-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
34	FLT34-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
35	FLT35-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
36	FLT36-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
37	FLT37-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
38	FLT38-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
40	FLT40-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
41	FLT41-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
43	FLT43-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
44	FLT44-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
45	FLT45-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
46	FLT46-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
47	FLT47-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
48	FLT48-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable

Note 1: Poor voltage damping

Table 3-2 (continued)
Stability Analysis Summary of Results for 2017 Winter, 2018 Summer, and 2026 Summer Peak Conditions

Cont. No.	Cont. Name	2017 Winter Peak				2018 Summer Peak				2026 Summer Peak			
		Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability
		Less than 0.70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.		
49	FLT49-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
51	FLT51-3PH	System Instability				System Instability				-	-	Compliant	Stable
52	FLT52-3PH	System Instability				System Instability				-	-	Compliant	Stable
53	FLT53-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
54	FLT54-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
55	FLT55-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
56	FLT56-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
57	FLT57-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
58	FLT58-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
59	FLT59-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
60	FLT60-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
61	FLT61-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
62	FLT62-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	V < 0.9 p.u.	Stable
63	FLT63-SB	System Instability				-	-	Volt oscillations	Unstable[1]	-	-	V < 0.9 p.u.	Stable
64	FLT64-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
65	FLT65-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
66	FLT66-PO	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
67	FLT67-PO	System Instability				System Instability				-	-	Compliant	Stable
68	FLT68-PO	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
69	FLT69-PO	System Instability				System Instability				-	-	Compliant	Stable
70	FLT70- PO	System Instability				System Instability				-	-	Compliant	Stable
72	FLT72-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
73	FLT73-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
74	FLT74-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
75	FLT75-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
76	FLT76-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
77	FLT77-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
78	FLT78-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
79	FLT79-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
80	FLT80-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
81	FLT81-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
82	FLT82-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
83	FLT83-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
84	FLT84-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable

Note 1: Poor voltage damping

Table 3-2 (continued)
Stability Analysis Summary of Results for 2017 Winter, 2018 Summer, and 2026 Summer Peak Conditions

Cont. No.	Cont. Name	2017 Winter Peak				2018 Summer Peak				2026 Summer Peak			
		Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability
		Less than 0.70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.		
85	FLT85-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
86	FLT86-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
87	FLT87-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
88	FLT88-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
89	FLT89-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
90	FLT90-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
91	FLT91-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
92	FLT92-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
93	FLT93-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
94	FLT94-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
95	FLT95-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
96	FLT96-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
97	FLT97-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
98	FLT98-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
99	FLT99-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
100	FLT100-PO	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
101	FLT101-PO	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
102	FLT102-PO	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
103	FLT103-PO	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
104	FLT104-PO	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
105	FLT105-PO	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
106	FLT106-PO	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
107	FLT107-PO	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
108	FLT108-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
109	FLT109-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
110	FLT110-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
111	FLT111-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
112	FLT112-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
113	FLT113-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
114	FLT114-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
115	FLT115-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
116	FLT116-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
117	FLT117-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
118	FLT118-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable

Note 1: Poor voltage damping

Table 3-2 (continued)
Stability Analysis Summary of Results for 2017 Winter, 2018 Summer, and 2026 Summer Peak Conditions

Cont. No.	Cont. Name	2017 Winter Peak				2018 Summer Peak				2026 Summer Peak			
		Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability
		Less than 0.70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.		
119	FLT119-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
120	FLT120-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
121	FLT121-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
122	FLT122-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
123	FLT123-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
124	FLT124-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
125	FLT125-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
126	FLT126-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
127	FLT127-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
128	FLT128-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
129	FLT129-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
130	FLT130-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
131	FLT131-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
132	FLT132-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
133	FLT133-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
134	FLT134-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
135	FLT135-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
136	FLT136-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
137	FLT137-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
138	FLT138-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
139	FLT139-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
140	FLT140-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
141	FLT141-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
142	FLT142-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
143	FLT143-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
144	FLT144-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
145	FLT145-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
146	FLT146-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
147	FLT147-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
148	FLT148-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
149	FLT149-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
150	FLT150-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
151	FLT151-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
152	FLT152-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable

Note 1: Poor voltage damping

Table 3-2 (continued)
Stability Analysis Summary of Results for 2017 Winter, 2018 Summer, and 2026 Summer Peak Conditions

Cont. No.	Cont. Name	2017 Winter Peak				2018 Summer Peak				2026 Summer Peak			
		Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability
		Less than 0.70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.		
153	FLT153-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
154	FLT154-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
155	FLT155-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
156	FLT156-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
157	FLT157-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
158	FLT158-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
159	FLT159-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
160	FLT160-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
161	FLT161-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
162	FLT162-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
163	FLT163-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
164	FLT164-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
165	FLT165-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
166	FLT166-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
167	FLT167-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
168	FLT168-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
169	FLT169-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
170	FLT170-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
171	FLT171-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
172	FLT172-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
173	FLT173-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
174	FLT174-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
175	FLT175-3PH	-	-	Compliant	Stable	-	-	V < 0.9 p.u.	Stable	-	-	Compliant	Stable
176	FLT176-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
177	FLT177-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
178	FLT178-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
179	FLT179-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
180	FLT180-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
181	FLT181-SB	-	-	V < 0.9 p.u.	Stable	-	-	V < 0.9 p.u.	Stable	-	-	Compliant	Stable
182	FLT182-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
183	FLT183-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
184	FLT184-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
185	FLT185-PO	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
186	FLT186-PO	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable

Note 1: Poor voltage damping

Table 3-2 (continued)
Stability Analysis Summary of Results for 2017 Winter, 2018 Summer, and 2026 Summer Peak Conditions

Cont. No.	Cont. Name	2017 Winter Peak				2018 Summer Peak				2026 Summer Peak			
		Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability
		Less than 0.70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.		
187	FLT187-PO	-	-	Compliant	Stable	-	-	V < 0.9 p.u.	Stable	-	-	Compliant	Stable
188	FLT188-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
190	FLT190-3PH	System Instability				System Instability				-	-	Compliant	Stable
191	FLT191-3PH	System Instability				System Instability				-	-	Compliant	Stable
192	FLT192-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
193	FLT193-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
195	FLT195-3PH	System Instability				System Instability				-	-	Volt oscillations	Unstable[1]
196	FLT196-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
197	FLT197-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
199	FLT199-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
200	FLT200-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
201	FLT201-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
202	FLT202-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
203	FLT203-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
204	FLT204-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
205	FLT205-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
206	FLT206-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
209	FLT209-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
210	FLT210-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
211	FLT211-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
212	FLT212-PO	System Instability				System Instability				-	-	Volt oscillations	Unstable[1]
213	FLT213-PO	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
219	FLT219-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
220	FLT220-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
221	FLT221-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
222	FLT222-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
223	FLT223-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
224	FLT224-3PH (17W)	-	-	Volt oscillations	Unstable[1]	N/A	N/A	N/A	N/A	-	-	Compliant	Stable
224	FLT224-3PH (18S,26S)	N/A	N/A	N/A	N/A	-	-	Compliant	Stable	-	-	Compliant	Stable
225	FLT225-3PH (17W)	-	-	Volt oscillations	Unstable[1]	N/A	N/A	N/A	N/A	-	-	Compliant	Stable
225	FLT225-3PH (18S, 26S)	N/A	N/A	N/A	N/A	-	-	Compliant	Stable	-	-	Compliant	Stable
226	FLT226-3PH (17W)	-	-	Volt oscillations	Unstable[1]	N/A	N/A	N/A	N/A	-	-	Compliant	Stable

Note 1: Poor voltage damping

Table 3-2 (continued)
Stability Analysis Summary of Results for 2017 Winter, 2018 Summer, and 2026 Summer Peak Conditions

Cont. No.	Cont. Name	2017 Winter Peak				2018 Summer Peak				2026 Summer Peak			
		Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability
		Less than 0.70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.		
226	FLT226-3PH (18S, 26S)	N/A	N/A	N/A	N/A	-	-	Compliant	Stable	-	-	Compliant	Stable
227	FLT227-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
228	FLT228-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
229	FLT229-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
230	FLT230-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
231	FLT231-SB	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
232	FLT232-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
233	FLT233-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
234	FLT234-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
235	FLT235-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
236	FLT236-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
237	FLT237-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
238	FLT238-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
239	FLT239-3PH	-	-	Compliant	Gen Trips	-	-	Compliant	Gen Trips	-	-	Compliant	Gen Trips
241	FLT241-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
242	FLT242-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
244	FLT244-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
245	FLT245-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
246	FLT246-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
247	FLT247-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
248	FLT248-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]
249	FLT249-SB	-	-	Compliant	Gen Trips	-	-	Compliant	Gen Trips	-	-	Compliant	Gen Trips
250	FLT250-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
251	FLT251-PO	Steady-State Divergence				Steady-State Divergence				Steady-State Divergence			
252	FLT252-PO	Steady-State Divergence				Steady-State Divergence				Steady-State Divergence			
253	FLT253-PO	-	-	Compliant	Gen Trips	-	-	Compliant	Gen Trips	-	-	Compliant	Gen Trips
264	FLT264-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
265	FLT265-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
266	FLT266-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
267	FLT267-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
268	FLT268-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
270	FLT270-PO	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
271	FLT271-PO	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
272	FLT272-PO	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable

Note 1: Poor voltage damping

Table 3-2 (continued)
Stability Analysis Summary of Results for 2017 Winter, 2018 Summer, and 2026 Summer Peak Conditions

Cont. No.	Cont. Name	2017 Winter Peak				2018 Summer Peak				2026 Summer Peak			
		Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability
		Less than 0.70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.		
273	FLT273-PO	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
274	FLT274-PO	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
275	FLT275-PO	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
280	FLT280-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
281	FLT281-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
282	FLT282-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
283	FLT283-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
284	FLT284-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
285	FLT285-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
286	FLT286-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
287	FLT287-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
289	FLT289-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
290	FLT290-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
291	FLT291-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
292	FLT292-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
293	FLT293-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
294	FLT294-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
295	FLT295-SB	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
296	FLT296-PO	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
297	FLT297-PO	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
298	FLT298-PO	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable	-	-	Compliant	Stable
299	FLT299-PO	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
300	FLT300-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
301	FLT301-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
302	FLT302-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
303	FLT303-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
304	FLT304-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
305	FLT305-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
306	FLT306-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
307	FLT307-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
312	FLT312-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
313	FLT313-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
314	FLT314-SB	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
316	FLT316-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable

Note 1: Poor voltage damping

Table 3-2 (continued)
Stability Analysis Summary of Results for 2017 Winter, 2018 Summer, and 2026 Summer Peak Conditions

Cont. No.	Cont. Name	2017 Winter Peak				2018 Summer Peak				2026 Summer Peak			
		Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability	Voltage Recovery		Post Fault Steady-State Voltage	System Stability
		Less than 0.70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.			Less than .70 p.u.	Greater than 1.20 p.u.		
318	FLT318-3PH	System Instability				System Instability				-	-	Compliant	Stable
319	FLT319-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
321	FLT321-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
322	FLT322-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
323	FLT323-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
324	FLT324-3PH	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
325	FLT325-PO	Steady-State Divergence				Steady-State Divergence				-	-	Volt oscillations	Unstable[1]
327	FLT327-PO	Steady-State Divergence				Steady-State Divergence				-	-	Compliant	Stable
331	FLT331-PO	Steady-State Divergence				Steady-State Divergence				-	-	Compliant	Stable
332	FLT332-PO	Steady-State Divergence				Steady-State Divergence				-	-	Compliant	Stable
333	FLT333-PO	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable
334	FLT334-PO	Steady-State Divergence				Steady-State Divergence				-	-	Volt oscillations	Unstable[1]
335	FLT335-PO	Steady-State Divergence				Steady-State Divergence				-	-	Volt oscillations	Unstable[1]
336	FLT336-PO	-	-	Volt oscillations	Unstable[1]	-	-	Volt oscillations	Unstable[1]	-	-	Compliant	Stable
338	FLT338-PO	Steady-State Divergence				Steady-State Divergence				-	-	Volt oscillations	Unstable[1]
341	FLT341-3PH	-	-	Compliant	Stable	-	-	Compliant	Stable	-	-	Compliant	Stable

Note 1: Poor voltage damping

To mitigate the system/voltage instability, voltage violations, generation tripping offline, and poor post-fault steady-state voltages, the following upgrades were provided by SPP and implemented (upgrades provided here are required for 17W season and thus, implemented in remaining years):

- Hobbs to Yoakum to Tuco 345 kV circuit #1 (advancement in 17W and 18S)
- Yoakum 345/230 kV transformer #1 (advancement in 17W and 18S)
- Beaver to Clark County 345 kV circuit #1(previously assigned)
- Border 345 kV 50 MVAR capacitor bank
- Crawfish Draw 345 kV 200 MVAR capacitor bank & +225/-150 MVAR SVC
- Crossroads 345 kV 200 MVAR capacitor bank
- Oklaunion 345 kV 130 MVAR capacitor bank & +300/-150 MVAR SVC
- Potter County 345 kV 100 MVAR capacitor bank
- Crawfish Draw to Lawton Eastside 345 kV circuit #1
- Chisholm to Potter County 345 kV circuit #1

FLT51-3PH, a three-phase fault resulting in the loss of Deaf Smith to Plant X 230 kV was observed to result in a voltage collapse for 17W and 18S conditions. Refer to Figure 3-1 for a representative comparison plot of several area buses for the 2017 Winter Peak case with and without system upgrades. It can be observed that the upgrades in the study area support system voltages and provide reactive reinforcement for the system to recover within SPP criteria.

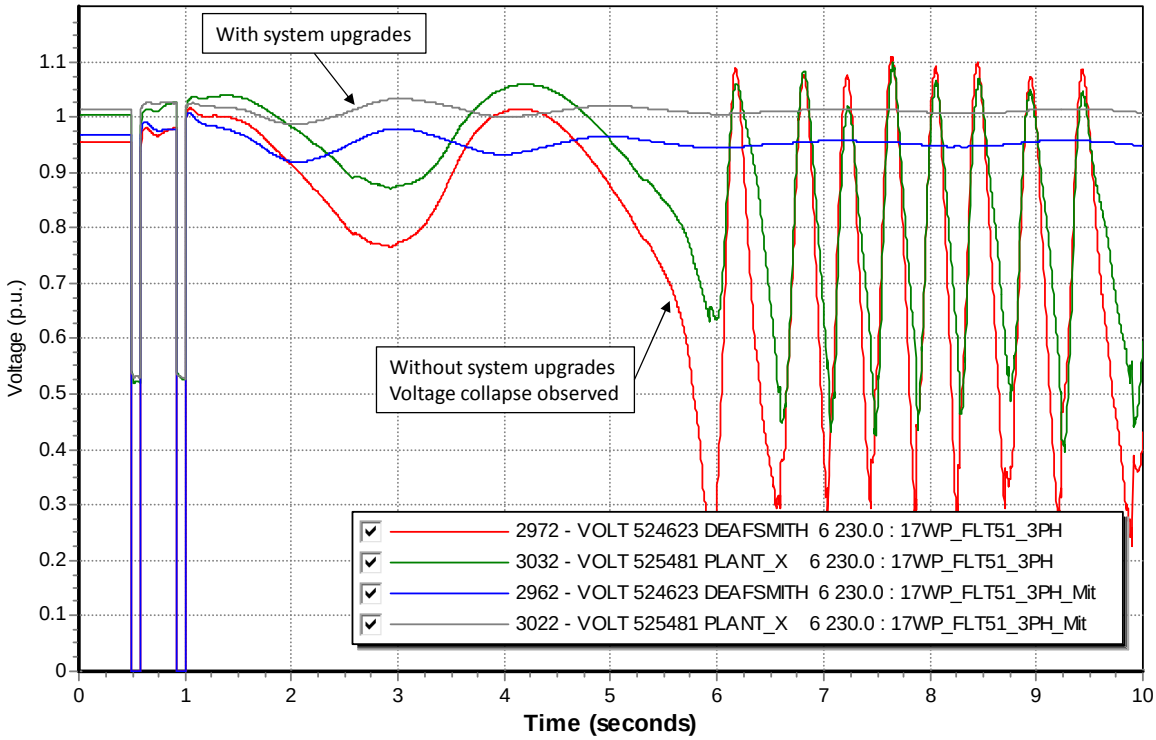

Figure 3-1: Plot of voltages for 17W conditions with and without system upgrades for FLT51.

FLT62-SB, a single phase fault with a stuck breaker results in the loss of Deaf Smith to Bushland 230 kV and Deaf Smith to Plant X 230 kV, was observed to have voltage instability and growing voltage oscillations. Refer to Figure 3-2 for a representative voltage comparison plot of Deaf Smith 230 kV and Plant X 230 kV area voltages for the 17W case with and without system upgrades. The upgrades identified in this section show the voltage oscillations and swings are non-existent and the area exhibits satisfactory voltage response. The system recovered within SPP criteria.

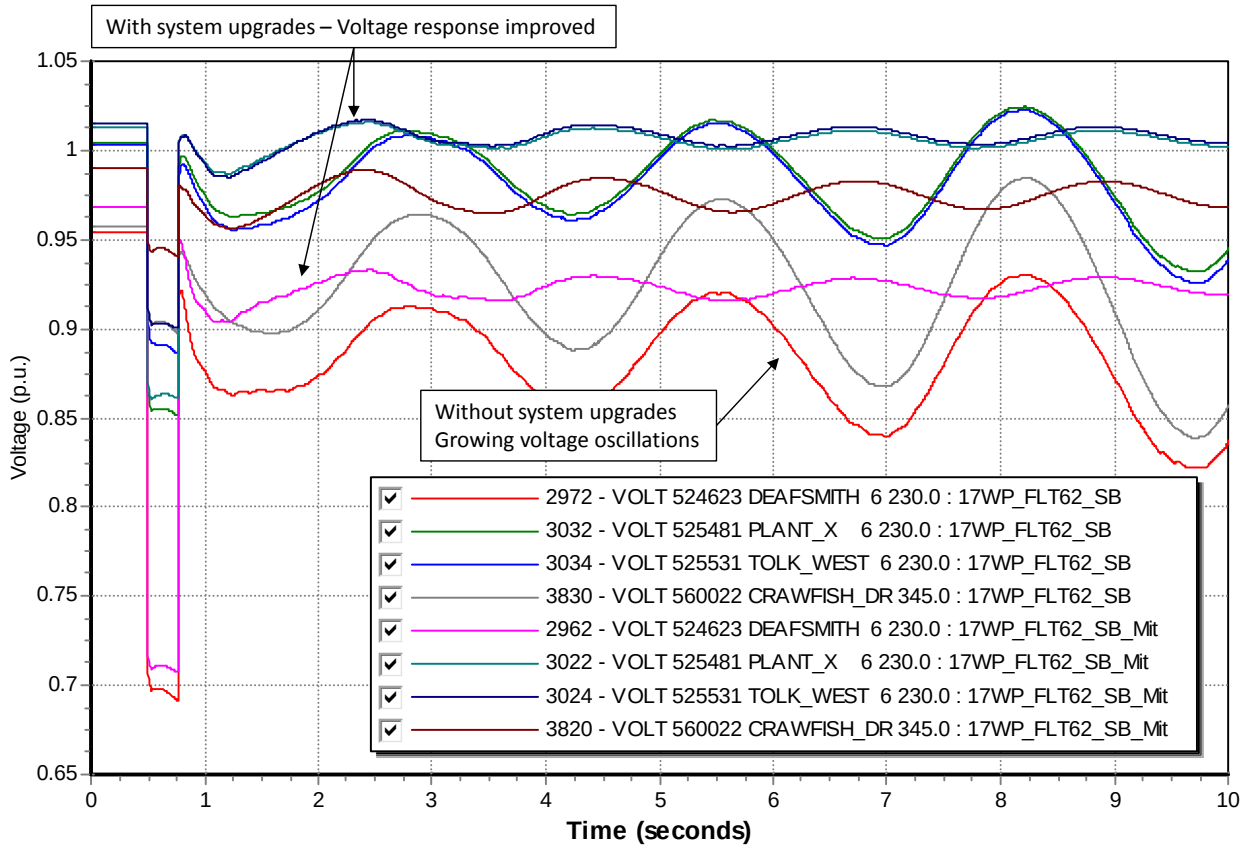

Figure 3-2: Representative plot of area voltages for 17W conditions with and without system upgrades for FLT62.

FLT81-3PH, a three-phase fault resulting in the loss of the Yoakum 230/115 kV transformer, was observed to have non-damped voltage oscillations in the SPP system for 17W and 18S conditions. Refer to Figure 3-3 for a representative comparison plot of several area buses for the 2017 Winter Peak case with and without system upgrades. It can be observed that the upgrades in the study area help dampen the voltage oscillations after the fault is cleared and the system recovered within SPP criteria.

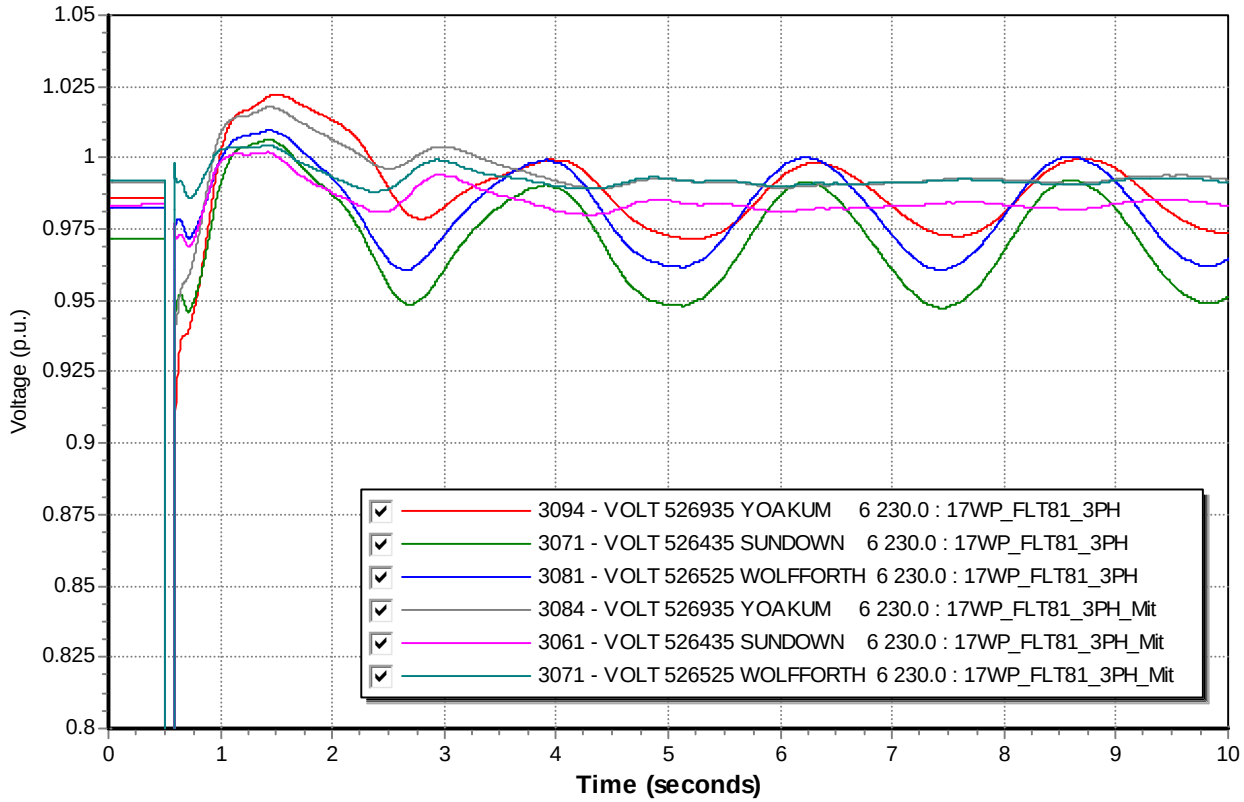

Figure 3-3: Representative plot of area voltages for 17W conditions with and without system upgrades for FLT81.

The limiting contingencies for the Group 06 study were observed to be tie-line outages in the Oklaunion region. FLT191-3PH, a three-phase fault resulting in the loss of Crawfish Draw to Oklaunion 345 kV was observed as the limiting contingency. This fault resulted in the loss of 161 mile line which connects the HVDC line to the rest of the system. When this line is loss, the fault resulted in voltage collapse in the Crawfish Draw region. Refer to Figure 3-4 for a representative voltage comparison plot of Crawfish Draw and Border area voltages for the 17W case with and without system upgrades. Refer to Figure 3-5 for a representative plot of area rotor angles with and without system upgrades. It can be observed that the reactive reinforcements and line upgrades in the region improve the system response and all voltage and rotor angles recover within SPP criteria.

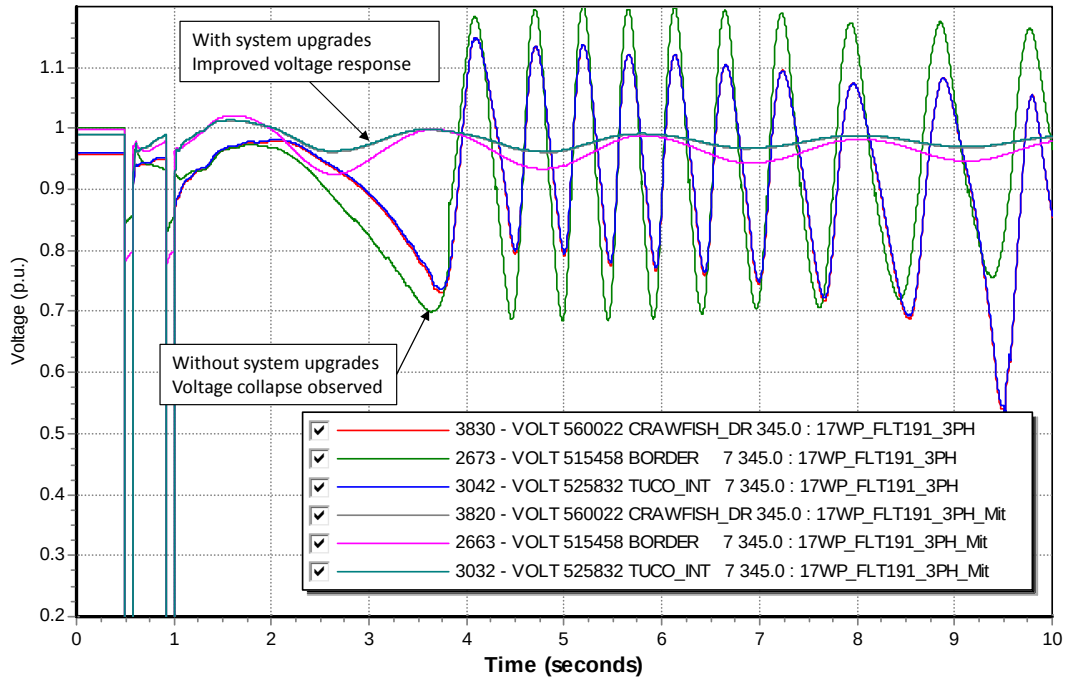

Figure 3-4: Representative plot of Crawfish Draw and OKU area voltages for 17W conditions with and without system upgrades for FLT191

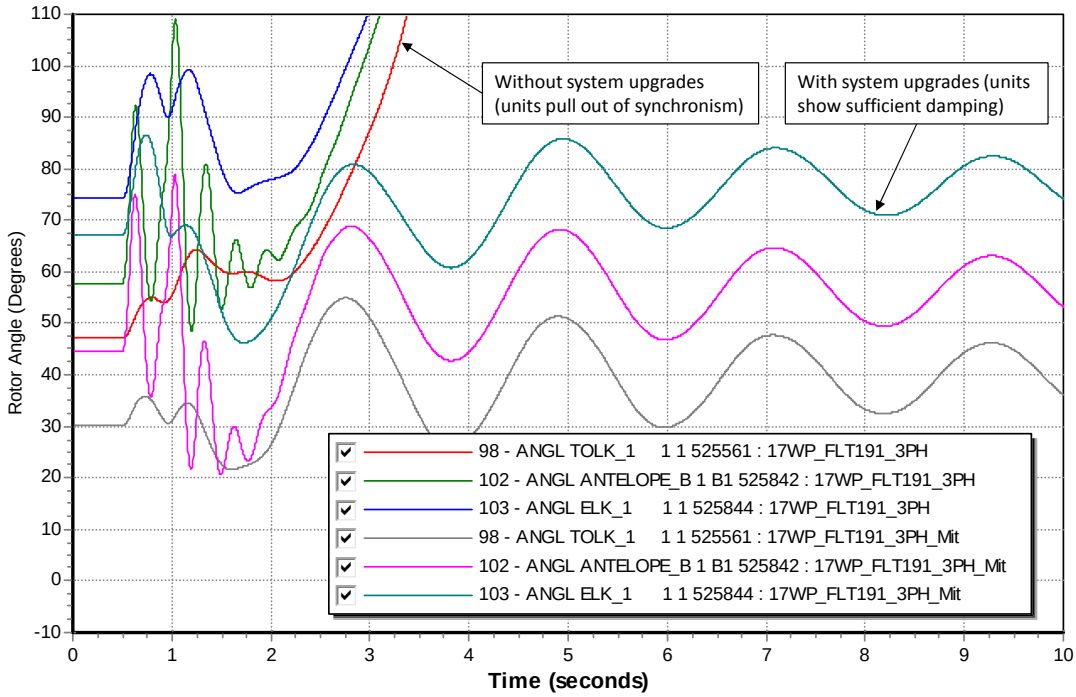

Figure 3-5: Comparison plot of area generator rotor angles for 17W conditions with and without system upgrades for FLT191.

Additionally, a voltage collapse was observed for the tie-line outage of Potter County to Hitchland 345 kV (FLT318-3PH) without system reinforcements. With the system upgrades identified in this section, all voltages and rotor angles recovered within SPP criteria. Refer to Figure 3-6 for a representative voltage comparison plot of Crawfish Draw and Potter County area voltages for the 17W case with and without system upgrades. Refer to Figure 3-7 for a representative plot of area rotor angles with and without system upgrades. It can be observed that the reactive reinforcements and line upgrades in the region improve the system response and all voltage and rotor angles recover within SPP criteria.

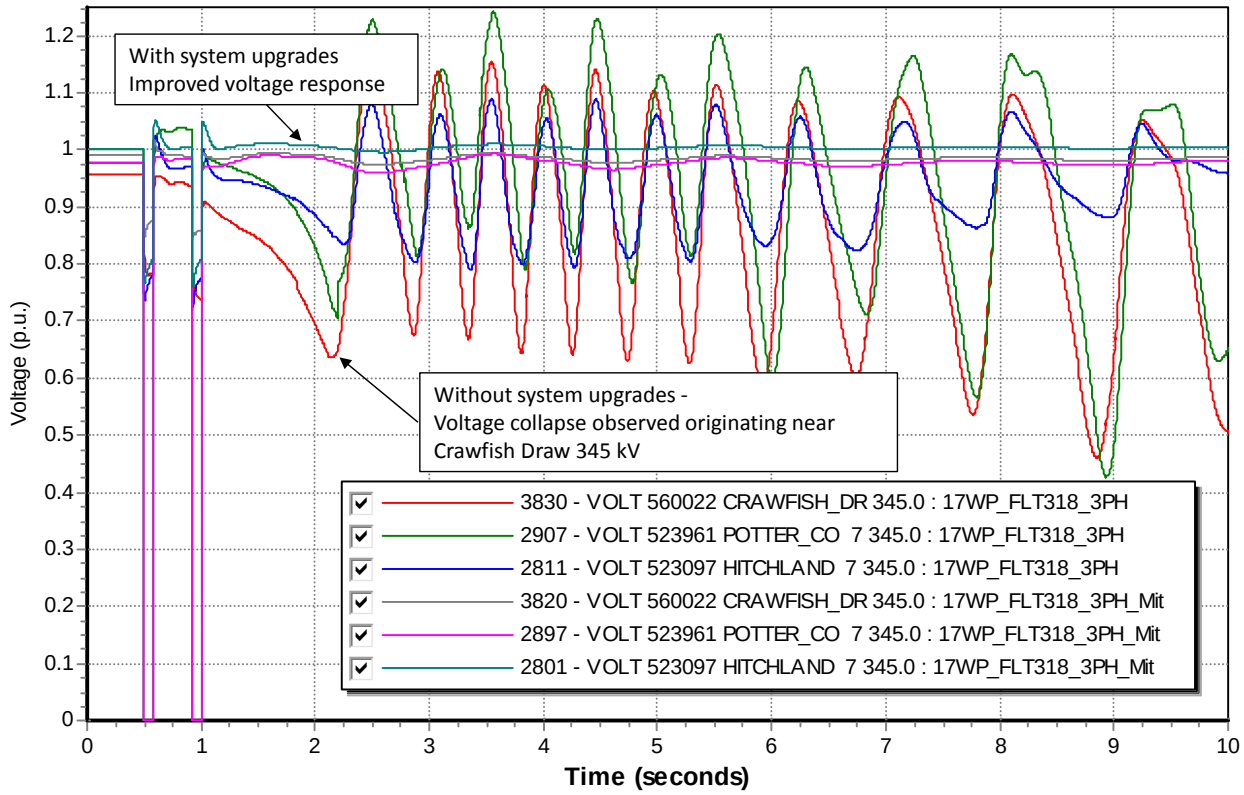

Figure 3-6: Representative plot of Crawfish Draw area voltages for 17W conditions with system upgrades for FLT318.

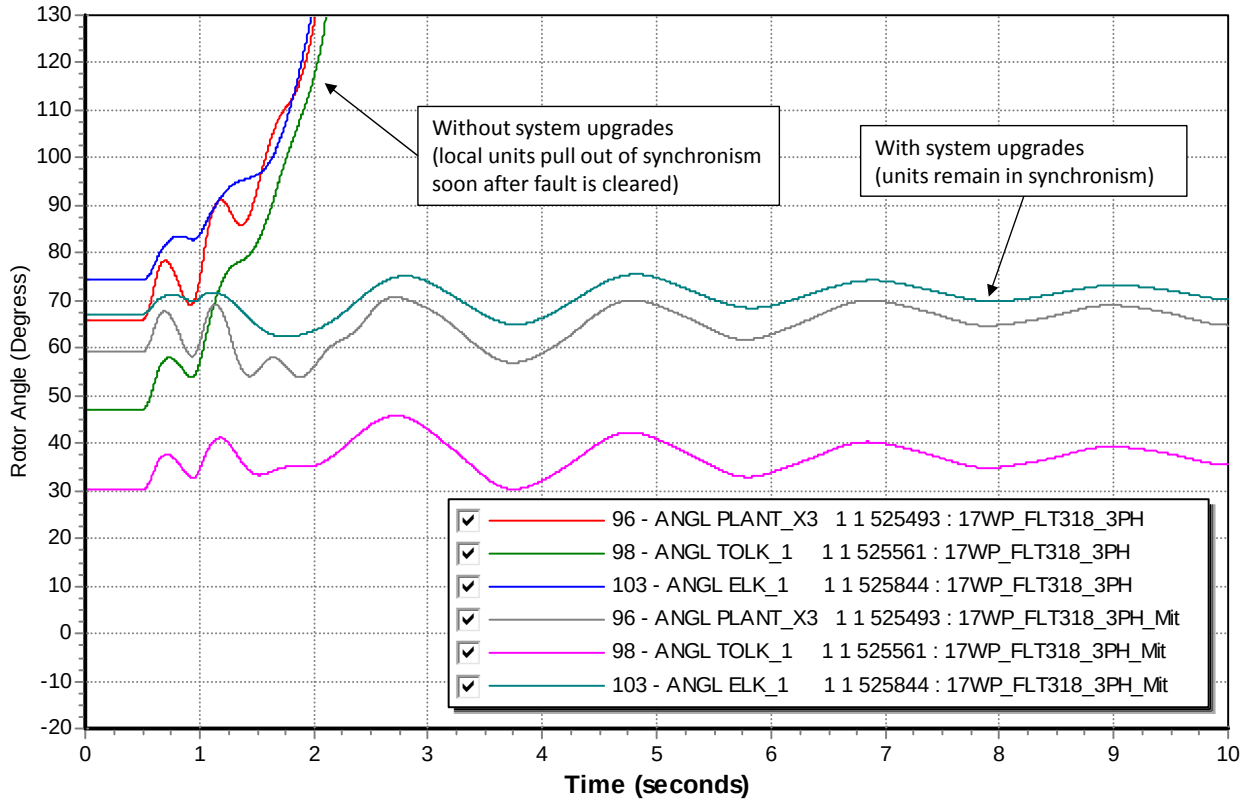

Figure 3-7: Comparison plot of area generator rotor angles for 17W conditions with and without system upgrades for FLT318.

After the upgrades and system adjustments listed in this section were implemented, the Stability Analysis was re-simulated to determine system stability. **With the aforementioned upgrades, the Stability Analysis determined that there was no generation tripping or system instability/voltage recovery issues as a result of interconnected all study projects at 100% output.**

SECTION 4: SHORT CIRCUIT ANALYSIS

The objective of this task is to quantify the three-phase to ground fault currents for the 2018 Summer Peak and 2026 Summer Peak seasons for each interconnecting generator.

4.1 Approach

The short-circuit analysis will assess breaker adequacy and fault duties for the generator interconnection bus and five buses away from the point of interconnection. MEPPI will assume no outages to find maximum short-circuit currents that flow through the breaker. The Automatic Sequencing Fault Calculation (ASCC) function in PSS/E was utilized to perform this task. FLAT conditions were applied to pre-fault conditions and the following adjustments were utilized:

- All synchronous and asynchronous machine P and Q output was set to zero
- All transformer tap ratios were set to 1.0 p.u. and all phase shift angles were set to zero
- All generator reactance's were fixed to the subtransient reactance
- All line charging was set to zero
- All shunts were set to zero
- All loads were set to zero
- All pre-fault bus voltages were set to 1.0 p.u. and a phase shift angle of zero

Note upgrades found to be necessary for the Stability Analysis were included in the Short-Circuit Analysis.

4.2 Short Circuit Results: 2018 Summer Peak

The maximum fault current for each bus is provided for the 2018 Summer Peak conditions. The following tables show the short circuit results for the study generators for the 2018 Summer Peak condition:

- Table 4-1: Short Circuit Analysis for ASGI-2016-009 (18SP)
- Table 4-2: Short Circuit Analysis for GEN-2015-099 (18SP)
- Table 4-3: Short Circuit Analysis for GEN-2016-121 (18SP)
- Table 4-4: Short Circuit Analysis for GEN-2016-123, GEN-2016-124, and GEN-2016-125 (18SP)
- Table 4-5: Short Circuit Analysis for GEN-2016-171 (18SP)
- Table 4-6: Short Circuit Analysis for GEN-2016-172 (18SP)
- Table 4-7: Short Circuit Analysis for GEN-2016-177 (18SP)

Table 4-1
Short Circuit Analysis for Study Project ASGI-2016-009 (18SP)

Study Generator ASGI-2016-009											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
522823	LP-MILWAKEE6	230	10.63	526192	MURPHY 3	115	10.71	526735	TERRY_CNTY 2	69	6.94
522828	LP-MILWAKEE2	69	8.31	526199	SP-FRANKFRD3	115	9.74	526736	TERRY_CNTY 3	115	10.31
522861	LP-SOUTHEST6	230	14.25	526221	BATTON_N 2	69	1.78	526747	LG-BROWNFLD2	69	3.56
525481	PLANT_X 6	230	24.59	526268	LUBBCK_STH 3	115	19.34	526792	PRENTICE 3	115	5.87
525524	TOLK_EAST 6	230	30.76	526269	LUBBCK_STH 6	230	18.15	526934	YOAKUM 3	115	16.56
525828	TUCO_INT 3	115	20.27	526337	JONES 6	230	20.53	527080	EL_PASO 3	115	15.52
525830	TUCO_INT 6	230	24.60	526434	SUNDOWN 3	115	10.79	527125	DENVER_CTY 2	69	8.61
525832	TUCO_INT 7	345	16.02	526435	SUNDOWN 6	230	11.05	527130	DENVER_N 3	115	20.69
525840	ANTELOPE_1 6	230	24.37	526460	AMOCO_SS 6	230	9.70	527136	DENVER_S 3	115	20.69
525957	HALE_WNDCL16	230	9.41	526469	SP-YUMA 2	69	3.05	527146	MUSTANG 3	115	22.25
526076	STANTON_W 3	115	9.14	526475	YUMA_INT 3	115	11.01	527202	SEAGRAVES 3	115	8.49
526109	SP-ERSKINE 3	115	11.33	526481	SP-WOLF_TP 3	115	11.19	527212	DIAMONDBACK3	115	3.09
526130	SP-CARLISLE2	69	2.11	526483	SP-WOLFORTH3	115	8.68	527261	SULPHUR 2	69	3.35
526146	INDIANA 3	115	9.54	526484	LG-LEVELAND3	115	9.11	527262	SULPHUR 3	115	5.64
526159	CARLISLE 2	69	2.57	526491	LG-CLAUENE 3	115	7.84	527286	XTO_RUSSEL 3	115	9.93
526160	CARLISLE 3	115	13.26	526506	LG-DOCWEBR 2	69	4.93	560021	CRAWFISH_DR2	230	20.84
526161	CARLISLE 6	230	11.36	526524	WOLFFORTH 3	115	11.54	583810	COMNIRE	115	0.37
526162	LP-DOUD_TP 3	115	11.69	526525	WOLFFORTH 6	230	13.56	584720	ASGI15021602	69	2.13
526176	LP-DOUD 3	115	9.08	526535	SP-MILWAKEE3	115	10.03	587370	GEN-2016-056	230	5.95
526184	SW_6878 2	69	2.16								

Table 4-2
Short Circuit Analysis for Study Project GEN-2015-099 (18SP)

Study Generator GEN-2015-099											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
525832	TUCO_INT 7	345	15.97	527966	KIOWA 3	115	15.82	528477	S_HOBBS 3	115	10.10
526460	AMOCO_SS 6	230	9.68	527999	INTREPDW_TP3	115	13.20	528480	OXY_S_HOBBS3	115	10.23
526934	YOAKUM 3	115	16.47	528027	RDRUNNER 7	345	4.44	528484	SW_4J44 3	115	10.81
526935	YOAKUM 6	230	17.23	528095	7-RIVERS 6	230	6.11	528491	MONUMENT 3	115	14.68
526936	YOAKUM_345	345	8.95	528145	NATPOT_TP 2	69	8.94	528498	W_HOBBS 3	115	11.34
527009	BRU_SUB 6	230	13.74	528151	FIESTA 3	115	9.59	528512	EUNICE 3	115	6.02
527030	ALRDCRTZ_TP3	115	8.67	528159	CARLSBAD 2	69	4.85	528533	DRINKARD_TP3	115	7.69
527130	DENVER_N 3	115	20.57	528160	CARLSBAD 3	115	11.01	528552	OIL_CENTER 3	115	5.82
527149	MUSTANG 6	230	15.42	528178	PECOS 3	115	11.56	528554	COOPER_RNCH3	115	6.34
527284	RUSSELL 3	115	8.94	528179	PECOS 6	230	6.32	528568	MONUMNT_TP 3	115	9.85
527286	XTO_RUSSEL 3	115	9.88	528185	N_LOVING 7	345	5.43	528575	OXYPERMIAN 3	115	14.55
527325	OXY_WSEM_TP3	115	8.38	528317	ENRON_TP 3	115	6.74	528582	BYRD 3	115	7.69
527360	MAPCO 3	115	10.12	528318	ENRON 3	115	5.87	528589	DRINKARD 3	115	7.85
527362	JOHNSON_DRW3	115	10.35	528325	LE-WAITS 3	115	6.66	528596	CARDINAL 3	115	7.91
527363	HIGG 3	115	10.04	528333	LE-WEST_SUB3	115	8.27	528602	ANDREWS 3	115	10.43
527483	CHAVES_CNTY6	230	4.46	528334	LE-NRTH_INT3	115	8.20	528603	NA_ENRICH 3	115	10.22
527793	EDDY_STH 3	115	11.54	528341	LE-SANANDRS3	115	6.27	528604	ANDREWS 6	230	6.41
527798	EDDY_NTH 3	115	11.54	528348	BUCKEYE_TP 3	115	8.04	528617	LE-WAITS 2	69	3.28
527799	EDDY_NORTH 6	230	8.90	528353	MADDOXG23 3	115	24.45	528618	LE-LOVINTON2	69	7.06
527802	EDDY_CNTY 7	345	6.91	528355	MADDOX 3	115	24.45	528622	LE-SANANDRS2	69	5.20
527864	CUNNINHAM 3	115	25.53	528385	BUCKEYE 3	115	7.25	528627	LE-TXACO_TP3	115	6.95
527865	CUNNIGHM_N 6	230	14.07	528392	PEARLE 3	115	6.23	528638	LE-SAUNDRTP2	69	3.55
527867	CUNNIGHM_S 6	230	14.07	528394	QUAHADA 3	115	8.04	528667	LE-MHOON 2	69	4.36
527891	HOBBS_INT 3	115	28.88	528399	LEA_NATIONL3	115	6.78	528675	LE-FAMARISS2	69	3.31
527894	HOBBS_INT 6	230	16.14	528406	MALJMAR1&2 3	115	3.21	528679	LE-TATUM_SW2	69	4.86
527896	HOBBS_INT 7	345	8.69	528413	TAYLOR 3	115	13.85	528699	LE-GRAY 2	69	4.12
527929	PCA 2	69	6.32	528420	ZIA 3	115	6.52	528775	LE-ERF 3	115	10.35
527930	PCA 3	115	11.38	528422	DCP_ZIA TP 3	115	6.98	528792	LE-TEXACO 3	115	6.30
527935	CV-SKELLY 3	115	3.23	528423	DCP_ZIA 3	115	6.62	560059	G1579&G1580T	230	8.85
527943	CV-LUSK 2	69	2.25	528433	BENSING 3	115	7.86	562480	G13-027-TAP	230	9.39
527947	CV-LUSK 3	115	3.47	528435	MILLEN 3	115	11.17	587110	GEN-2016-015	230	6.22
527948	CV-LUSK_TP 3	115	4.21	528442	NE_HOBBS 3	115	11.45	587420	GEN-2016-062	230	5.48
527961	POTASH_JCT 2	69	8.99	528449	W_BENDER 3	115	14.08	587670	GEN-2015-099	115	16.08
527962	POTASH_JCT 3	115	15.85	528456	N_HOBBS 3	115	8.79	588350	GEN-2016-171	230	8.63
527963	POTASH_JCT 6	230	6.97	528463	SANGER_SW 3	115	15.12	599960	EPTNP-D6	230	8.90
527965	KIOWA 7	345	7.51	528470	E_SANGER 3	115	12.17				

Table 4-3
Short Circuit Analysis for Study Project GEN-2016-121 (18SP)

Study Generator GEN-2016-121											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
525549	TOLK 7	345	15.36	527962	POTASH_JCT 3	115	15.85	528222	CHINA_DRAW 3	115	8.41
525832	TUCO_INT 7	345	15.97	527963	POTASH_JCT 6	230	6.97	528223	CHINA_DRAW 7	345	4.25
526935	YOAKUM 6	230	17.23	527965	KIOWA 7	345	7.51	528226	HOPI_SUB 3	115	6.73
526936	YOAKUM_345	345	8.95	527966	KIOWA 3	115	15.82	528228	WOOD_DRAW 3	115	5.64
527483	CHAVES_CNTY6	230	4.46	527999	INTREPDW_TP3	115	13.20	528230	AGAVE_RHILL3	115	8.95
527655	RSVLT_CC_E 7	345	8.15	528009	WIPP 3	115	6.79	528232	OCHOA 3	115	8.80
527656	CROSSROADS 7	345	9.17	528016	SAND_DUNES 3	115	6.37	528235	WOLFCAMP_TP3	115	5.74
527793	EDDY_STH 3	115	11.54	528018	RED_BLUFF 3	115	7.15	528236	WOLFCAMP 3	115	5.52
527798	EDDY_NTH 3	115	11.54	528020	BOPCO_PKRLK3	115	5.64	528239	PNDEROSATP 3	115	6.81
527799	EDDY_NORTH 6	230	8.90	528024	RR_SVC_HV 3	115	6.78	528240	PONDEROSA 3	115	4.59
527802	EDDY_CNTY 7	345	6.91	528025	RDRUNNER 3	115	9.28	528519	WARD 3	115	5.46
527865	CUNNIGHM_N 6	230	14.07	528027	RDRUNNER 7	345	4.44	528540	WHITTEN 3	115	6.92
527867	CUNNIGHM_S 6	230	14.07	528035	IMC_#1_TP 3	115	9.44	528547	S_JAL 3	115	6.21
527891	HOBBS_INT 3	115	28.88	528040	BATTLE_AXE 3	115	2.88	528604	ANDREWS 6	230	6.41
527894	HOBBS_INT 6	230	16.14	528095	7-RIVERS 6	230	6.11	560059	G1579&G1580T	230	8.85
527896	HOBBS_INT 7	345	8.69	528160	CARLSBAD 3	115	11.01	584940	GEN-2015-056	345	7.46
527930	PCA 3	115	11.38	528182	NORTH_LOVNG3	115	9.28	587990	GEN-2016-121	115	8.79
527953	LIVSTNRIDGE3	115	7.36	528185	N_LOVING 7	345	5.43	588000	GEN-2016-123	345	9.02
527955	SAGE_BRUSH 3	115	5.08	528192	SOUTH_LOVNG3	115	6.99	599960	EPTNP-D6	230	8.90
527961	POTASH_JCT 2	69	8.99								

Table 4-4
Short Circuit Analysis for Study Project GEN-2016-123, GEN-2016-124, and GEN-2016-125 (18SP)

Study Generator GEN-2016-123, GEN-2016-124, GEN-2016-125											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
511423	FLE TAP4	138	8.80	524908	ROOSEVELT 3	115	10.34	527930	PCA 3	115	11.63
511437	COMANC-4	138	18.27	524909	ROSEVELT_N 6	230	9.01	527961	POTASH_JCT 2	69	9.09
511439	LWSTAP 4	138	11.51	524911	ROSEVELT_S 6	230	9.01	527962	POTASH_JCT 3	115	16.37
511456	O.K.U.-7	345	5.25	524915	SW_4K33 6	230	9.01	527963	POTASH_JCT 6	230	7.27
511466	L.E.S.-2	69	16.60	525212	SWISHER 3	115	11.72	527965	KIOWA 7	345	7.81
511467	L.E.S.-4	138	24.99	525213	SWISHER 6	230	10.60	527966	KIOWA 3	115	16.33
511468	L.E.S.-7	345	14.03	525460	NEWHART 3	115	16.84	527999	INTREPDW_TP3	115	13.47
511474	SHERID4	138	12.32	525461	NEWHART 6	230	11.27	528018	RED_BLUFF 3	115	7.23
511486	ELGINJT4	138	9.94	525480	PLANT_X 3	115	17.90	528024	RR_SVC_HV 3	115	6.84
511494	COMMTAP4	138	21.78	525481	PLANT_X 6	230	24.59	528025	RDRUNNER 3	115	9.38
511553	CHISHOLM7	345	11.09	525524	TOLK_EAST 6	230	30.76	528027	RDRUNNER 7	345	4.54
511557	CHISHOLM6	230	11.15	525531	TOLK_WEST 6	230	30.76	528040	BATTLE_AXE 3	115	2.89
511565	OKLAUN HVDC7	345	5.24	525543	TOLK_TAP 6	230	30.76	528070	CV-AZMESA 3	115	7.45
511568	TERRYRD7	345	10.18	525549	TOLK 7	345	15.53	528093	7-RIVERS 2	69	2.40
511571	RUSHSPR7	345	6.45	525636	LAMB_CNTY 3	115	8.46	528094	7-RIVERS 3	115	8.36
515045	SEMINOL7	345	26.57	525637	LAMB_CNTY 6	230	5.42	528095	7-RIVERS 6	230	6.28
515136	SUNNYSD7	345	10.86	525828	TUCO_INT 3	115	20.27	528109	CV-LAKEWOOD3	115	6.48
515375	WWRDEHV7	345	19.73	525830	TUCO_INT 6	230	24.60	528132	OCOTILLO 3	115	6.17
515376	WWRDEHV4	138	22.92	525832	TUCO_INT 7	345	16.02	528137	N_CANAL 3	115	8.67
515407	TATONGA7	345	15.94	525840	ANTELOPE_1 6	230	24.37	528160	CARLSBAD 3	115	11.26
515458	BORDER 7	345	9.27	525850	ELK_CT1	345	15.81	528178	PECOS 3	115	11.84
515554	BVRCNTY7	345	16.35	525957	HALE_WNDCL16	230	9.41	528179	PECOS 6	230	6.53
515599	G07621119-20	345	13.17	526161	CARLISLE 6	230	11.36	528182	NORTH_LOVNG3	115	9.43
515800	GRACMNT7	345	17.52	526337	JONES 6	230	20.53	528185	N_LOVING 7	345	5.58
523093	HITCHLAND 3	115	18.14	526435	SUNDOWN 6	230	11.05	528222	CHINA_DRAW 3	115	8.53
523095	HITCHLAND 6	230	15.55	526935	YOAKUM 6	230	17.54	528223	CHINA_DRAW 7	345	4.35
523097	HITCHLAND 7	345	17.00	526936	YOAKUM_345	345	9.14	528226	HOPI_SUB 3	115	6.81
523101	NOBLE_WND 7	345	16.92	527455	RSWL_SLRCOL3	115	7.02	528230	AGAVE_RHILL3	115	9.04
523103	NOBLE_WND 3	115	10.90	527470	CHVS_SLRCOL3	115	6.71	528604	ANDREWS 6	230	6.61
523111	NOVUS1 3	115	20.00	527482	CHAVES_CNTY3	115	7.09	539801	THISTLE7	345	16.41
523112	NOVUS1 7	345	16.65	527483	CHAVES_CNTY6	230	4.50	560010	G14-037-TAP	345	16.76
523155	OCHILTREE 6	230	4.26	527501	URTON 3	115	5.87	560021	CRAWFISH_DR2	230	20.84
523215	FREWHELCOL17	345	9.78	527509	PRICE_TAP 3	115	5.42	560022	CRAWFISH_DR	345	16.10
523221	XIT_INTG 6	230	3.25	527546	SAMSON 3	115	5.53	560035	GRAPEVINE	345	6.34
523267	PRINGLE 6	230	4.28	527564	ROSWLL_INT 3	115	5.78	560059	G1579&G1580T	230	9.14
523308	MOORE_E 3	115	11.88	527597	TWEEDY 3	115	5.33	560071	G16-003-TAP	345	15.26
523309	MOORE_CNTY 6	230	7.01	527654	RSVLT_CC_W 7	345	7.29	560078	G16-037-TAP	345	9.42
523821	WALKEMEYER 3	115	10.39	527655	RSVLT_CC_E 7	345	8.20	562480	G13-027-TAP	230	9.44
523823	WALKEMEYER 7	345	8.36	527656	CROSSROADS 7	345	9.23	576395	GEN-2010-014	345	12.11
523853	FINNEY 7	345	10.23	527707	ARTESIA 3	115	6.91	576396	G10-014-XFMR	115	13.62
523869	CHAN+TASCOS6	230	4.38	527710	EAGLE_CREEK2	69	2.33	583090	G1149&G1504	345	7.76
523959	POTTER_CO 6	230	22.99	527711	EAGLE_CREEK3	115	7.53	583840	GEN-2013-027	230	8.95
523961	POTTER_CO 7	345	11.49	527715	NAVAJO_2TP 3	115	7.17	583960	G14034G14035	115	6.68
523977	HARRNG_WST 6	230	27.63	527736	NAVAJO_5TP 3	115	7.13	584210	GEN-2014-037	345	11.69
523978	HARRNG_MID 6	230	27.63	527786	ATOKA 3	115	7.22	584940	GEN-2015-056	345	7.50
523979	HARRNG_EST 6	230	27.63	527793	EDDY_STH 3	115	11.80	585003	CRFSDRW_SVC	345	16.10
524007	ROLLHILLS 3	115	19.75	527798	EDDY_NTH 3	115	11.80	585080	GEN-2015-071	345	9.44
524010	ROLLHILLS 6	230	20.69	527799	EDDY_NORTH 6	230	9.21	587470	GEN-2016-069	115	6.85
524266	BUSHLAND 3	115	9.61	527802	EDDY_CNTY 7	345	7.13	587740	GEN-2016-091	345	13.41
524267	BUSHLAND 6	230	10.87	527809	CV-8_MILE 3	115	5.44	587744	G16-091-TAP	345	15.14
524290	WILDOR2_JUS6	230	7.13	527821	CV-DAYTON +3	115	7.13	587770	GEN-2016-095	345	11.07
524296	SPNSPUR_WND7	345	5.55	527822	CV-TURKYTRK3	115	3.46	587990	GEN-2016-121	115	8.88
524415	AMA_SOUTH 6	230	13.83	527864	CUNNINHAM 3	115	26.36	588000	GEN-2016-123	345	9.08
524623	DEAFSMITH 6	230	14.03	527865	CUNNIGHM_N 6	230	16.61	590001	OKLEHV24	138	4.79
524770	PLSNT_HILL 6	230	6.20	527867	CUNNIGHM_S 6	230	16.61	590003	OKLEHV14	138	4.80
524875	OASIS 6	230	7.46	527891	HOBBS_INT 3	115	29.89	599891	OKLAUN 7	345	4.04
524885	SN_JUAN_TAP6	230	4.82	527894	HOBBS_INT 6	230	18.13	599955	PNM-DC6	230	9.01
524889	SN_JUAN_WND6	230	4.61	527896	HOBBS_INT 7	345	9.13	599960	EPTNP-D6	230	9.21

Table 4-5
Short Circuit Analysis for Study Project GEN-2016-171 (18SP)

Study Generator GEN-2016-171											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
511456	O.K.U.-7	345	5.25	527036	SHELL_C2 3	115	12.84	528179	PECOS 6	230	6.53
511468	L.E.S.-7	345	14.03	527041	ARCO_TP 3	115	12.96	528182	NORTH_LOVNG3	115	9.43
515458	BORDER 7	345	9.27	527047	OXY_WILRD1 3	115	10.43	528185	N_LOVING 7	345	5.58
524623	DEAFSMITH 6	230	14.03	527051	ODC_TP 3	115	13.07	528223	CHINA_DRAW 7	345	4.35
524908	ROOSEVELT 3	115	10.34	527062	SHELL_CO2 3	115	15.75	528317	ENRON_TP 3	115	6.81
524909	ROSEVELT_N 6	230	9.01	527080	EL_PASO 3	115	15.52	528325	LE-WAITS 3	115	6.68
524911	ROSEVELT_S 6	230	9.01	527105	SAN_ANDS_TP3	115	16.37	528333	LE-WEST_SUB3	115	8.32
524915	SW_4K33 6	230	9.01	527125	DENVER_CTY 2	69	8.61	528334	LE-NRTH_INT3	115	8.24
525461	NEWHART 6	230	11.27	527130	DENVER_N 3	115	20.69	528348	BUCKEYE_TP 3	115	8.12
525480	PLANT_X 3	115	17.90	527136	DENVER_S 3	115	20.69	528353	MADDOXG23 3	115	24.96
525481	PLANT_X 6	230	24.59	527146	MUSTANG 3	115	22.25	528355	MADDOX 3	115	24.96
525524	TOLK_EAST 6	230	30.76	527149	MUSTANG 6	230	15.58	528385	BUCKEYE 3	115	7.31
525531	TOLK_WEST 6	230	30.76	527151	GS-MUSTANG 6	230	15.58	528392	PEARLE 3	115	6.28
525543	TOLK_TAP 6	230	30.76	527194	LG-PLSHILL 3	115	7.50	528394	QUAHADA 3	115	8.15
525549	TOLK 7	345	15.53	527201	SEAGRAVES 2	69	5.39	528399	LEA_NATIONL3	115	6.85
525636	LAMB_CNTY 3	115	8.46	527202	SEAGRAVES 3	115	8.49	528413	TAYLOR 3	115	14.03
525637	LAMB_CNTY 6	230	5.42	527238	ROZ 3	115	9.24	528422	DCP_ZIA TP 3	115	7.05
525828	TUCO_INT 3	115	20.27	527242	AMERADA 3	115	9.35	528433	BENSING 3	115	7.91
525830	TUCO_INT 6	230	24.60	527262	SULPHUR 3	115	5.64	528435	MILLEN 3	115	11.29
525832	TUCO_INT 7	345	16.02	527275	SEMINOLE 3	115	11.38	528442	NE_HOBBS 3	115	11.57
525840	ANTELOPE_1 6	230	24.37	527276	SEMINOLE 6	230	7.24	528463	SANGER_SW 3	115	15.32
525850	ELK_CT1	345	15.81	527284	RUSSELL 3	115	8.99	528484	SW_4J44 3	115	10.93
525957	HALE_WNDCL16	230	9.41	527286	XTO_RUSSEL 3	115	9.93	528491	MONUMENT 3	115	14.88
526036	LC-OPDYKE 3	115	5.71	527322	GAINES 3	115	8.50	528498	W_HOBBS 3	115	11.48
526161	CARLISLE 6	230	11.36	527340	DOSS 3	115	7.13	528568	MONUMNT_TP 3	115	9.80
526269	LUBBCK_STH 6	230	18.15	527362	JOHNSON_DRW3	115	10.42	528575	OXYPERMIAN 3	115	14.73
526337	JONES 6	230	20.53	527363	HIGG 3	115	10.09	528582	BYRD 3	115	7.58
526350	LEHMAN_TP 3	115	5.39	527483	CHAVES_CNTY6	230	4.50	528589	DRINKARD 3	115	7.95
526424	PACIFIC 3	115	9.15	527656	CROSSROADS 7	345	9.23	528602	ANDREWS 3	115	10.65
526434	SUNDOWN 3	115	10.79	527793	EDDY_STH 3	115	11.80	528603	NA_ENRICH 3	115	10.42
526435	SUNDOWN 6	230	11.05	527798	EDDY_NTH 3	115	11.80	528604	ANDREWS 6	230	6.61
526445	AMOCO_TP 3	115	10.12	527799	EDDY_NORTH 6	230	9.21	528605	TARGA 3	115	8.58
526460	AMOCO_SS 6	230	9.70	527802	EDDY_CNTY 7	345	7.13	528618	LE-LOVINTON2	69	7.08
526491	LG-CLAUENE 3	115	7.84	527864	CUNNINHAM 3	115	26.36	528626	LE-PLNSINT 2	69	4.38
526524	WOLFFORTH 3	115	11.54	527865	CUNNIGHM_N 6	230	16.61	528627	LE-TXACO_TP3	115	7.00
526525	WOLFFORTH 6	230	13.56	527867	CUNNIGHM_S 6	230	16.61	528740	LE-PLANS_TP2	69	3.64
526735	TERRY_CNTY 2	69	6.94	527891	HOBBS_INT 3	115	29.89	560021	CRAWFISH_DR2	230	20.84
526736	TERRY_CNTY 3	115	10.31	527894	HOBBS_INT 6	230	18.13	560022	CRAWFISH_DR	345	16.10
526784	AMOCOWASSON6	230	13.83	527896	HOBBS_INT 7	345	9.13	560059	G1579&G1580T	230	9.14
526792	PRENTICE 3	115	5.87	527930	PCA 3	115	11.63	562480	G13-027-TAP	230	9.44
526928	PLAINS_INT 3	115	9.66	527962	POTASH_JCT 3	115	16.37	583840	GEN-2013-027	230	8.95
526934	YOAKUM 3	115	16.56	527963	POTASH_JCT 6	230	7.27	585003	CRFSDRW_SVC	345	16.10
526935	YOAKUM 6	230	17.54	527965	KIOWA 7	345	7.81	587110	GEN-2016-015	230	6.40
526936	YOAKUM_345	345	9.14	527966	KIOWA 3	115	16.33	587420	GEN-2016-062	230	5.62
526944	LG-PLAINS 3	115	7.69	528025	RDRUNNER 3	115	9.38	587670	GEN-2015-099	115	16.29
527009	BRU_SUB 6	230	13.91	528027	RDRUNNER 7	345	4.54	588350	GEN-2016-171	230	8.91
527010	OXYBRU 6	230	13.80	528095	7-RIVERS 6	230	6.28	599960	EPTNP-D6	230	9.21
527018	BENNETT 3	115	13.05								

Table 4-6
Short Circuit Analysis for Study Project GEN-2016-172 (18SP)

Study Generator GEN-2016-172											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
511456	O.K.U.-7	345	5.25	524606	HEREFORD 3	115	13.39	525446	RKYFORD_TP 3	115	9.87
511468	L.E.S.-7	345	14.03	524622	DEAFSMITH 3	115	15.52	525453	HALE_CNTY 2	69	6.91
511553	CHISHOLM7	345	11.09	524623	DEAFSMITH 6	230	14.03	525454	HALE_CNTY 3	115	10.16
515458	BORDER 7	345	9.27	524629	DS-#6 3	115	6.74	525460	NEWHART 3	115	16.84
522800	MU-TULIA 3	115	5.24	524681	DIMMIT_E&S 2	69	2.80	525461	NEWHART 6	230	11.27
523093	HITCHLAND 3	115	18.14	524688	DS-#3 2	69	2.97	525480	PLANT_X 3	115	17.90
523095	HITCHLAND 6	230	15.55	524694	DS-#22 3	115	4.63	525481	PLANT_X 6	230	24.59
523097	HITCHLAND 7	345	17.00	524714	CASTRO_TP 2	69	3.54	525524	TOLK_EAST 6	230	30.76
523101	NOBLE_WND 7	345	16.92	524721	DS-#15&#19+2	69	3.56	525531	TOLK_WEST 6	230	30.76
523112	NOVUS1 7	345	16.65	524728	DS-CASTRO 2	69	4.29	525543	TOLK_TAP 6	230	30.76
523155	OCHILTREE 6	230	4.26	524734	DS-#21 3	115	9.47	525549	TOLK 7	345	15.53
523177	RB-SPURLCK+3	115	5.88	524745	CASTRO_CNTY2	69	8.87	525635	LAMB_CNTY 2	69	5.90
523215	FREWHELCOL17	345	9.78	524746	CASTRO_CNTY3	115	9.97	525636	LAMB_CNTY 3	115	8.46
523216	RB-HOGUE 3	115	4.14	524757	BETHEL_COL13	115	8.28	525637	LAMB_CNTY 6	230	5.42
523220	XIT_INTG 3	115	6.11	524770	PLSNT_HILL 6	230	6.20	525731	SP-ABERNTHY2	69	3.02
523221	XIT_INTG 6	230	3.25	524908	ROOSEVELT 3	115	10.34	525738	HALECENTER 2	69	2.46
523256	ETTER 3	115	5.66	524909	ROSEVELT_N 6	230	9.01	525745	LH-HALECTR 2	69	2.44
523266	PRINGLE 3	115	10.65	524911	ROSEVELT_S 6	230	9.01	525779	FLOYD_CNTY 2	69	5.33
523267	PRINGLE 6	230	4.28	524915	SW_4K33 6	230	9.01	525780	FLOYD_CNTY 3	115	6.07
523277	VALERO 3	115	10.73	525018	EMULESH&VLY3	115	4.83	525816	TUCO_INT2 2	69	4.68
523304	MOORE_W 3	115	11.88	525019	EMU&VLY_TP 3	115	5.14	525826	TUCO_INT 2	69	7.94
523308	MOORE_E 3	115	11.88	525028	BAILEYCO 3	115	5.01	525828	TUCO_INT 3	115	20.27
523309	MOORE_CNTY 6	230	7.01	525050	BC-KELLEY +3	115	7.76	525830	TUCO_INT 6	230	24.60
523551	HUTCHISON 6	230	7.27	525056	BC-EARTH 3	115	8.18	525832	TUCO_INT 7	345	16.02
523771	GRAPEVINE 6	230	5.81	525116	DS-#12 2	69	2.38	525840	ANTELOPE_1 6	230	24.37
523823	WALKEMEYER 7	345	8.36	525119	BC-SUNYSIDE2	69	1.32	525853	LH-WIL&ELN+2	69	2.58
523869	CHAN+TASCOS6	230	4.38	525124	HART_INDUST3	115	7.79	525885	SP-NEWDEAL 2	69	3.32
523959	POTTER_CO 6	230	22.99	525129	LC-HART 2	69	2.57	525926	CROSBY 3	115	4.52
523961	POTTER_CO 7	345	11.49	525132	LC-N_OLTON 2	69	3.08	525957	HALE_WNDCL16	230	9.41
523977	HARRNG_WST 6	230	27.63	525143	HAPPY_CTYTP2	69	4.03	526020	HOCKLEY 3	115	5.42
523978	HARRNG_MID 6	230	27.63	525153	HAPPY_INT 2	69	4.46	526036	LC-OPDYKE 3	115	5.71
523979	HARRNG_EST 6	230	27.63	525154	HAPPY_INT 3	115	5.50	526076	STANTON_W 3	115	9.14
524007	ROLLHILLS 3	115	19.75	525179	TULIA_TP 3	115	6.52	526146	INDIANA 3	115	9.54
524009	CHERRY 3	115	18.87	525191	KRESS_INT 2	69	4.52	526161	CARLISLE 6	230	11.36
524010	ROLLHILLS 6	230	20.69	525192	KRESS_INT 3	115	12.18	526268	LUBBCK_STH 3	115	19.34
524043	NICHOLS 3	115	31.27	525203	SW-KRESS 2	69	4.52	526269	LUBBCK_STH 6	230	18.15
524044	NICHOLS 6	230	26.73	525212	SWISHER 3	115	11.72	526297	LUBBCK_EST 2	69	8.07
524106	NORTHWEST 3	115	11.38	525213	SWISHER 6	230	10.60	526298	LUBBCK_EST 3	115	15.46
524136	HASTINGS 3	115	13.92	525224	KRESS_RURL 2	69	2.53	526299	LUBBCK_EST 6	230	13.33
524163	EAST_PLANT 6	230	14.09	525225	KRESS_RURAL3	115	6.47	526337	JONES 6	230	20.53
524266	BUSHLAND 3	115	9.61	525249	LH-PLW&FNY+2	69	1.61	526424	PACIFIC 3	115	9.15
524267	BUSHLAND 6	230	10.87	525256	SW_9748 2	69	3.10	526434	SUNDOWN 3	115	10.79
524276	WILDOR_WND 6	230	5.23	525257	N_PLAINVEW 3	115	5.17	526435	SUNDOWN 6	230	11.05
524290	WILDOR2_JUS6	230	7.13	525271	KISER 2	69	3.48	526445	AMOCO_TP 3	115	10.12
524296	SPNSPUR_WND7	345	5.55	525272	KISER 3	115	5.17	526460	AMOCO_SS 6	230	9.70
524300	HILLSIDE 3	115	12.79	525284	WESTRIDGE 2	69	4.27	526524	WOLFFORTH 3	115	11.54
524364	RANDALL 3	115	21.73	525291	PLAINVW_TP 2	69	6.49	526525	WOLFFORTH 6	230	13.56
524365	RANDALL 6	230	14.82	525298	S_PLAINVEW 2	69	2.58	526935	YOAKUM 6	230	17.54
524377	FARMERS 3	115	15.41	525307	E_PLAINVEW 2	69	2.45	527656	CROSSROADS 7	345	9.23
524397	ARROWHEAD 3	115	13.74	525316	LH-PROVDNCE2	69	3.37	560010	G14-037-TAP	345	16.76
524404	OWENSCORN 3	115	15.08	525325	COX 2	69	3.37	560021	CRAWFISH_DR2	230	20.84
524414	AMA_SOUTH 3	115	16.95	525326	COX 3	115	5.95	560022	CRAWFISH_DR	345	16.10
524415	AMA_SOUTH 6	230	13.83	525339	AIKEN_RURL 2	69	2.45	560035	GRAPEVINE	345	6.34
524530	PALO_DURO 3	115	6.80	525393	ROCKYFORD 3	115	8.84	562004	G11-025-TAP	115	4.64
524544	SPRING_DRW 3	115	6.41	525397	OLTON 2	69	4.19	562480	G13-027-TAP	230	9.44
524556	LAPLATA 3	115	6.85	525404	LC-OLTON 2	69	4.50	576395	GEN-2010-014	345	12.11
524567	NE_HEREFORD3	115	11.67	525413	LAMTON 2	69	5.19	583840	GEN-2013-027	230	8.95
524573	NE_HEREFORD2	69	7.29	525414	LAMTON 3	115	7.67	585003	CRFSDRW_SVC	345	16.10
524590	DAWN 3	115	6.76	525425	CORNER 2	69	3.63	587570	ASGI1604	115	6.80
524597	PANDAHFD 3	115	10.48	525432	SP-HALFWAY+2	69	5.87	588440	GEN-2016-172	115	14.18
524604	HEREFRD_SB 2	69	4.66	525440	LC-S_OLTON+3	115	7.18	599955	PNM-DC6	230	9.01
524605	HEREFRD_NB 2	69	4.66								

Table 4-7
Short Circuit Analysis for Study Project GEN-2016-177 (18SP)

Study Generator GEN-2016-177											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
526736	TERRY_CNTY 3	115	10.31	527130	DENVER_N 3	115	20.57	528638	LE-SAUNDRTP2	69	3.55
527021	CORTEZ 3	115	6.37	527136	DENVER_S 3	115	20.57	528667	LE-MHOON 2	69	4.36
527022	APACHE_ROB 3	115	7.20	527146	MUSTANG 3	115	22.12	528675	LE-FAMARISS2	69	3.31
527024	ALLRED_SUB 3	115	7.89	527149	MUSTANG 6	230	15.42	528679	LE-TATUM_SW2	69	4.86
527030	ALRDCRTZ_TP3	115	8.67	527183	JAYBEE 2	69	4.35	528699	LE-GRAY 2	69	4.12
527036	SHELL_C2 3	115	12.79	527202	SEAGRAVES 3	115	8.47	528703	LE-DENTN_TP2	69	3.88
527062	SHELL_CO2 3	115	15.68	527275	SEMINOLE 3	115	11.33	528709	LE-FTS_COND2	69	2.91
527068	SHELLC3_TP 3	115	10.59	527286	XTO_RUSSEL 3	115	9.88	528711	LE-TP89 2	69	1.91
527074	SHELLC3 3	115	9.53	527313	MIDAMERI_TP2	69	2.15	528714	LE-FORT_SW 2	69	3.09
527080	EL_PASO 3	115	15.46	527891	HOBBS_INT 3	115	28.88	528718	LE-NEWTEX 2	69	1.91
527099	DC_EAST 2	69	6.07	528325	LE-WAITS 3	115	6.66	528759	LE-TP51 2	69	2.19
527105	SAN_ANDS_TP3	115	16.30	528333	LE-WEST_SUB3	115	8.27	528780	LE-NITROTEC2	69	1.93
527106	SAN_ANDRES 3	115	11.63	528334	LE-NRTH_INT3	115	8.20	588460	A16-008SUB	115	9.17
527111	WASSON 2	69	5.95	528617	LE-WAITS 2	69	3.28	588462	A16-008TP	115	9.17
527125	DENVER_CTY 2	69	8.60	528618	LE-LOVINTON2	69	7.06				

4.3 Short Circuit Results: 2026 Summer Peak

The maximum fault current for each bus is provided for the 2026 Summer Peak conditions. The following tables show the short circuit results for the study generators for the 2026 Summer Peak conditions:

- Table 4-8: Short Circuit Analysis for ASGI-2016-009 (26SP)
- Table 4-9: Short Circuit Analysis for GEN-2015-099 (26SP)
- Table 4-10: Short Circuit Analysis for GEN-2016-121 (26SP)
- Table 4-11: Short Circuit Analysis for GEN-2016-123, GEN-2016-124, and GEN-2016-125 (26SP)
- Table 4-12: Short Circuit Analysis for GEN-2016-171 (26SP)
- Table 4-13: Short Circuit Analysis for GEN-2016-172 (26SP)
- Table 4-14: Short Circuit Analysis for GEN-2016-177 (26SP)

Table 4-8
Short Circuit Analysis for Study Project ASGI-2016-009 (26SP)

Study Generator ASGI-2016-009											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
522823	LP-MILWAKEE6	230	13.50	526192	MURPHY 3	115	10.77	526735	TERRY_CNTY 2	69	6.94
522828	LP-MILWAKEE2	69	8.31	526199	SP-FRANKFRD3	115	9.76	526736	TERRY_CNTY 3	115	10.31
522861	LP-SOUTHEST6	230	17.34	526221	BATTON_N 2	69	1.78	526747	LG-BROWNFLD2	69	3.56
525481	PLANT_X 6	230	23.79	526268	LUBBCK_STH 3	115	19.56	526792	PRENTICE 3	115	5.87
525524	TOLK_EAST 6	230	30.09	526269	LUBBCK_STH 6	230	19.27	526934	YOAKUM 3	115	16.47
525828	TUCO_INT 3	115	20.21	526337	JONES 6	230	21.30	527080	EL_PASO 3	115	15.46
525830	TUCO_INT 6	230	24.60	526434	SUNDOWN 3	115	10.80	527125	DENVER_CTY 2	69	8.60
525832	TUCO_INT 7	345	15.97	526435	SUNDOWN 6	230	11.04	527130	DENVER_N 3	115	20.57
525840	ANTELOPE_1 6	230	24.38	526460	AMOCO_SS 6	230	9.68	527136	DENVER_S 3	115	20.57
525957	HALE_WNDCL16	230	9.41	526469	SP-YUMA 2	69	3.05	527146	MUSTANG 3	115	22.12
526076	STANTON_W 3	115	9.19	526475	YUMA_INT 3	115	11.11	527202	SEAGRAVES 3	115	8.47
526109	SP-ERSKINE 3	115	11.44	526481	SP-WOLF_TP 3	115	11.30	527212	DIAMONDBACK3	115	3.09
526130	SP-CARLISLE2	69	2.11	526483	SP-WOLFORTH3	115	8.74	527261	SULPHUR 2	69	3.35
526146	INDIANA 3	115	9.61	526484	LG-LEVELAND3	115	9.12	527262	SULPHUR 3	115	5.64
526159	CARLISLE 2	69	2.57	526491	LG-CLAUENE 3	115	7.84	527286	XTO_RUSSEL 3	115	9.88
526160	CARLISLE 3	115	13.44	526506	LG-DOCWEBR 2	69	4.93	560021	CRAWFISH_DR2	230	20.81
526161	CARLISLE 6	230	13.95	526524	WOLFFORTH 3	115	11.62	583810	COMNIRE	115	0.37
526162	LP-DOUD_TP 3	115	11.82	526525	WOLFFORTH 6	230	13.79	584720	ASGI15021602	69	2.13
526176	LP-DOUD 3	115	9.15	526535	SP-MILWAKEE3	115	10.06	587370	GEN-2016-056	230	6.53
526184	SW_6878 2	69	2.16								

Table 4-9
Short Circuit Analysis for Study Project GEN-2015-099 (26SP)

Study Generator GEN-2015-099											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
525832	TUCO_INT 7	345	16.02	527966	KIOWA 3	115	16.33	528477	S_HOBBS 3	115	10.21
526460	AMOCO_SS 6	230	9.70	527999	INTREPDW_TP3	115	13.47	528480	OXY_S_HOBBS3	115	10.34
526934	YOAKUM 3	115	16.56	528027	RDRUNNER 7	345	4.54	528484	SW_4J44 3	115	10.93
526935	YOAKUM 6	230	17.54	528095	7-RIVERS 6	230	6.28	528491	MONUMENT 3	115	14.88
526936	YOAKUM_345	345	9.14	528145	NATPOT_TP 2	69	9.04	528498	W_HOBBS 3	115	11.48
527009	BRU_SUB 6	230	13.91	528151	FIESTA 3	115	9.77	528512	EUNICE 3	115	6.07
527030	ALRDCRTZ_TP3	115	8.70	528159	CARLSBAD 2	69	4.88	528533	DRINKARD_TP3	115	7.78
527130	DENVER_N 3	115	20.69	528160	CARLSBAD 3	115	11.26	528552	OIL_CENTER 3	115	5.82
527149	MUSTANG 6	230	15.58	528178	PECOS 3	115	11.84	528554	COOPER_RNCH3	115	6.22
527284	RUSSELL 3	115	8.99	528179	PECOS 6	230	6.53	528568	MONUMNT_TP 3	115	9.80
527286	XTO_RUSSEL 3	115	9.93	528185	N_LOVING 7	345	5.58	528575	OXYPERMIAN 3	115	14.73
527325	OXY_WSEM_TP3	115	8.42	528317	ENRON_TP 3	115	6.81	528582	BYRD 3	115	7.58
527360	MAPCO 3	115	10.19	528318	ENRON 3	115	5.92	528589	DRINKARD 3	115	7.95
527362	JOHNSON_DRW3	115	10.42	528325	LE-WAITS 3	115	6.68	528596	CARDINAL 3	115	8.01
527363	HIGG 3	115	10.09	528333	LE-WEST_SUB3	115	8.32	528602	ANDREWS 3	115	10.65
527483	CHAVES_CNTY6	230	4.50	528334	LE-NRTH_INT3	115	8.24	528603	NA_ENRICH 3	115	10.42
527793	EDDY_STH 3	115	11.80	528341	LE-SANANDRS3	115	6.32	528604	ANDREWS 6	230	6.61
527798	EDDY_NTH 3	115	11.80	528348	BUCKEYE_TP 3	115	8.12	528617	LE-WAITS 2	69	3.28
527799	EDDY_NORTH 6	230	9.21	528353	MADDOXG23 3	115	24.96	528618	LE-LOVINTON2	69	7.08
527802	EDDY_CNTY 7	345	7.13	528355	MADDOX 3	115	24.96	528622	LE-SANANDRS2	69	5.21
527864	CUNNINHAM 3	115	26.36	528385	BUCKEYE 3	115	7.31	528627	LE-TXACO_TP3	115	7.00
527865	CUNNIGHM_N 6	230	16.61	528392	PEARLE 3	115	6.28	528638	LE-SAUNDRTP2	69	3.55
527867	CUNNIGHM_S 6	230	16.61	528394	QUAHADA 3	115	8.15	528667	LE-MHOON 2	69	4.37
527891	HOBBS_INT 3	115	29.89	528399	LEA_NATIONL3	115	6.85	528675	LE-FAMARISS2	69	3.31
527894	HOBBS_INT 6	230	18.13	528406	MALJMAR1&2 3	115	3.23	528679	LE-TATUM_SW2	69	4.87
527896	HOBBS_INT 7	345	9.13	528413	TAYLOR 3	115	14.03	528699	LE-GRAY 2	69	4.13
527929	PCA 2	69	6.36	528420	ZIA 3	115	6.59	528775	LE-ERF 3	115	10.42
527930	PCA 3	115	11.63	528422	DCP_ZIA TP 3	115	7.05	528792	LE-TEXACO 3	115	6.35
527935	CV-SKELLY 3	115	3.25	528423	DCP_ZIA 3	115	6.68	560059	G1579&G1580T	230	9.14
527943	CV-LUSK 2	69	2.26	528433	BENSING 3	115	7.91	562480	G13-027-TAP	230	9.44
527947	CV-LUSK 3	115	3.50	528435	MILLEN 3	115	11.29	587110	GEN-2016-015	230	6.40
527948	CV-LUSK_TP 3	115	4.24	528442	NE_HOBBS 3	115	11.57	587420	GEN-2016-062	230	5.62
527961	POTASH_JCT 2	69	9.09	528449	W_BENDER 3	115	14.26	587670	GEN-2015-099	115	16.29
527962	POTASH_JCT 3	115	16.37	528456	N_HOBBS 3	115	8.85	588350	GEN-2016-171	230	8.91
527963	POTASH_JCT 6	230	7.27	528463	SANGER_SW 3	115	15.32	599960	EPTNP-D6	230	9.21
527965	KIOWA 7	345	7.81	528470	E_SANGER 3	115	12.30				

Table 4-10
Short Circuit Analysis for Study Project GEN-2016-121 (26SP)

Study Generator GEN-2016-121											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
525549	TOLK 7	345	15.53	527961	POTASH_JCT 2	69	9.09	528222	CHINA_DRAW 3	115	8.53
525832	TUCO_INT 7	345	16.02	527962	POTASH_JCT 3	115	16.37	528223	CHINA_DRAW 7	345	4.35
526935	YOAKUM 6	230	17.54	527963	POTASH_JCT 6	230	7.27	528226	HOPI_SUB 3	115	6.81
526936	YOAKUM_345	345	9.14	527965	KIOWA 7	345	7.81	528228	WOOD_DRAW 3	115	5.69
527483	CHAVES_CNTY6	230	4.50	527966	KIOWA 3	115	16.33	528230	AGAVE_RHILL3	115	9.04
527655	RSVLT_CC_E 7	345	8.20	527999	INTREPDW_TP3	115	13.47	528232	OCHOA 3	115	8.89
527656	CROSSROADS 7	345	9.23	528009	WIPP 3	115	6.84	528235	WOLFCAMP_TP3	115	5.79
527793	EDDY_STH 3	115	11.80	528016	SAND_DUNES 3	115	6.42	528236	WOLFCAMP 3	115	5.57
527798	EDDY_NTH 3	115	11.80	528018	RED_BLUFF 3	115	7.23	528239	PNDEROSATP 3	115	6.81
527799	EDDY_NORTH 6	230	9.21	528020	BOPCO_PKRLK3	115	5.69	528240	PONDEROSA 3	115	4.59
527802	EDDY_CNTY 7	345	7.13	528024	RR_SVC_HV 3	115	6.84	528519	WARD 3	115	5.41
527865	CUNNIGHM_N 6	230	16.61	528025	RDRUNNER 3	115	9.38	528540	WHITTEN 3	115	6.91
527867	CUNNIGHM_S 6	230	16.61	528027	RDRUNNER 7	345	4.54	528547	S_JAL 3	115	6.23
527891	HOBBS_INT 3	115	29.89	528035	IMC_#1_TP 3	115	9.49	528604	ANDREWS 6	230	6.61
527894	HOBBS_INT 6	230	18.13	528040	BATTLE_AXE 3	115	2.89	560059	G1579&G1580T	230	9.14
527896	HOBBS_INT 7	345	9.13	528095	7-RIVERS 6	230	6.28	584940	GEN-2015-056	345	7.50
527930	PCA 3	115	11.63	528160	CARLSBAD 3	115	11.26	587990	GEN-2016-121	115	8.88
527953	LIVSTNRIDGE3	115	7.43	528182	NORTH_LOVNG3	115	9.43	588000	GEN-2016-123	345	9.08
527955	SAGE_BRUSH 3	115	5.12	528185	N_LOVING 7	345	5.58	599960	EPTNP-D6	230	9.21

Table 4-11
Short Circuit Analysis for Study Project GEN-2016-123, GEN-2016-124, and GEN-2016-125 (26SP)

Study Generator GEN-2016-123, GEN-2016-124, GEN-2016-125											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
511423	FLE TAP4	138	8.92	524909	ROSEVELT_N 6	230	8.99	527962	POTASH_JCT 3	115	15.85
511437	COMANC-4	138	18.40	524911	ROSEVELT_S 6	230	8.99	527963	POTASH_JCT 6	230	6.97
511439	LWSTAP 4	138	11.58	524915	SW_4K33 6	230	8.99	527965	KIOWA 7	345	7.51
511456	O.K.U.-7	345	5.26	525212	SWISHER 3	115	11.60	527966	KIOWA 3	115	15.82
511466	L.E.S.-2	69	16.66	525213	SWISHER 6	230	10.47	527999	INTREPDW_TP3	115	13.20
511467	L.E.S.-4	138	25.27	525460	NEWHART 3	115	16.57	528018	RED_BLUFF 3	115	7.15
511468	L.E.S.-7	345	14.13	525461	NEWHART 6	230	11.09	528024	RR_SVC_HV 3	115	6.78
511474	SHERID4	138	12.40	525480	PLANT_X 3	115	14.60	528025	RDRUNNER 3	115	9.28
511486	ELGINJT4	138	10.08	525481	PLANT_X 6	230	23.79	528027	RDRUNNER 7	345	4.44
511494	COMMTAP4	138	21.99	525524	TOLK_EAST 6	230	30.09	528040	BATTLE_AXE 3	115	2.88
511553	CHISHOLM7	345	11.09	525531	TOLK_WEST 6	230	30.09	528070	CV-AZMESA 3	115	7.34
511557	CHISHOLM6	230	11.15	525543	TOLK_TAP 6	230	30.09	528093	7-RIVERS 2	69	2.39
511565	OKLAUN HVDC7	345	5.24	525549	TOLK 7	345	15.36	528094	7-RIVERS 3	115	8.22
511568	TERRYRD7	345	10.21	525636	LAMB_CNTY 3	115	9.18	528095	7-RIVERS 6	230	6.11
511571	RUSHSPR7	345	6.46	525637	LAMB_CNTY 6	230	5.51	528109	CV-LAKEWOOD3	115	6.40
515045	SEMINOL7	345	26.53	525828	TUCO_INT 3	115	20.21	528132	OCOTILLO 3	115	6.10
515136	SUNNYSD7	345	10.88	525830	TUCO_INT 6	230	24.60	528137	N_CANAL 3	115	8.53
515375	WWRDEHV7	345	19.76	525832	TUCO_INT 7	345	15.97	528160	CARLSBAD 3	115	11.01
515376	WWRDEHV4	138	23.01	525840	ANTELOPE_1 6	230	24.38	528178	PECOS 3	115	11.56
515407	TATONGA7	345	15.95	525850	ELK_CT1	345	15.77	528179	PECOS 6	230	6.32
515458	BORDER 7	345	9.27	525957	HALE_WNDCL16	230	9.41	528182	NORTH_LOVNG3	115	9.28
515554	BVRCNTY7	345	16.35	526161	CARLISLE 6	230	13.95	528185	N_LOVING 7	345	5.43
515599	G07621119-20	345	13.18	526337	JONES 6	230	21.30	528192	SOUTH_LOVNG3	115	6.99
515800	GRACMNT7	345	17.72	526435	SUNDOWN 6	230	11.04	528222	CHINA_DRAW 3	115	8.41
523093	HITCHLAND 3	115	18.12	526935	YOAKUM 6	230	17.23	528223	CHINA_DRAW 7	345	4.25
523095	HITCHLAND 6	230	15.52	526936	YOAKUM_345	345	8.95	528226	HOPI_SUB 3	115	6.73
523097	HITCHLAND 7	345	16.98	527455	RSWL_SLRCOL3	115	6.97	528230	AGAVE_RHILL3	115	8.95
523101	NOBLE_WND 7	345	16.91	527470	CHVS_SLRCOL3	115	6.67	528604	ANDREWS 6	230	6.41
523103	NOBLE_WND 3	115	10.90	527482	CHAVES_CNTY3	115	7.05	539801	THISTLE7	345	16.47
523111	NOVUS1 3	115	20.00	527483	CHAVES_CNTY6	230	4.46	560010	G14-037-TAP	345	16.75
523112	NOVUS1 7	345	16.64	527501	URTON 3	115	5.84	560021	CRAWFISH_DR2	230	20.81
523155	OCHILTREE 6	230	4.25	527509	PRICE_TAP 3	115	5.39	560022	CRAWFISH_DR	345	16.05
523215	FREWHELCOL17	345	9.77	527546	SAMSON 3	115	5.50	560035	GRAPEVINE	345	6.32
523221	XIT_INTG 6	230	3.24	527564	ROSWLL_INT 3	115	5.76	560059	G1579&G1580T	230	8.85
523267	PRINGLE 6	230	4.25	527597	TWEEDY 3	115	5.30	560071	G16-003-TAP	345	15.27
523308	MOORE_E 3	115	11.79	527654	RSVLT_CC_W 7	345	7.26	560078	G16-037-TAP	345	9.44
523309	MOORE_CNTY 6	230	6.96	527655	RSVLT_CC_E 7	345	8.15	561000	OKU_SVC	345	5.26
523821	WALKEMEYER 3	115	10.43	527656	CROSSROADS 7	345	9.17	562480	G13-027-TAP	230	9.39
523823	WALKEMEYER 7	345	8.38	527707	ARTESIA 3	115	6.82	576395	GEN-2010-014	345	12.11
523853	FINNEY 7	345	10.36	527710	EAGLE_CREEK2	69	2.32	576396	G10-014-XFMR	115	13.62
523869	CHAN+TASCOS6	230	4.35	527711	EAGLE_CREEK3	115	7.42	583090	G1149&G1504	345	7.76
523959	POTTER_CO 6	230	22.13	527715	NAVAJO_2TP 3	115	7.07	583840	GEN-2013-027	230	8.90
523961	POTTER_CO 7	345	11.37	527736	NAVAJO_5TP 3	115	7.03	583960	G14034G14035	115	6.63
523977	HARRNG_WST 6	230	25.94	527786	ATOKA 3	115	7.12	584210	GEN-2014-037	345	11.69
523978	HARRNG_MID 6	230	25.94	527793	EDDY_STH 3	115	11.54	584940	GEN-2015-056	345	7.46
523979	HARRNG_EST 6	230	25.94	527798	EDDY_NTH 3	115	11.54	585003	CFSHDRW_SVC	345	16.05
524007	ROLLHILLS 3	115	18.53	527799	EDDY_NORTH 6	230	8.90	585080	GEN-2015-071	345	9.44
524010	ROLLHILLS 6	230	19.75	527802	EDDY_CNTY 7	345	6.91	587470	GEN-2016-069	115	6.80
524266	BUSHLAND 3	115	9.50	527809	CV-8_MILE 3	115	5.38	587740	GEN-2016-091	345	13.51
524267	BUSHLAND 6	230	10.71	527821	CV-DAYTON +3	115	7.03	587744	G16-091-TAP	345	15.27
524290	WILDOR2_JUS6	230	7.06	527822	CV-TURKYTRK3	115	3.44	587770	GEN-2016-095	345	11.13
524296	SPNSPUR_WND7	345	5.52	527864	CUNNINHAM 3	115	25.53	587990	GEN-2016-121	115	8.79
524415	AMA_SOUTH 6	230	13.35	527865	CUNNIGHM_N 6	230	14.07	588000	GEN-2016-123	345	9.02
524623	DEAFSMITH 6	230	13.77	527867	CUNNIGHM_S 6	230	14.07	590001	OKLEHV24	138	4.79
524770	PLSNT_HILL 6	230	6.21	527891	HOBBS_INT 3	115	28.88	590003	OKLEHV14	138	4.80
524875	OASIS 6	230	7.46	527894	HOBBS_INT 6	230	16.14	599891	OKLAUN 7	345	4.04
524885	SN_JUAN_TAP6	230	4.81	527896	HOBBS_INT 7	345	8.69	599955	PNM-DC6	230	8.99
524889	SN_JUAN_WND6	230	4.60	527930	PCA 3	115	11.38	599960	EPTNP-D6	230	8.90
524908	ROOSEVELT 3	115	10.38	527961	POTASH_JCT 2	69	8.99			230	8.42

Table 4-12
Short Circuit Analysis for Study Project GEN-2016-171 (26SP)

Study Generator GEN-2016-171											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
511456	O.K.U.-7	345	5.26	527036	SHELL_C2 3	115	12.79	528179	PECOS 6	230	6.32
511468	L.E.S.-7	345	14.13	527041	ARCO_TP 3	115	12.91	528182	NORTH_LOVNG3	115	9.28
515458	BORDER 7	345	9.27	527047	OXY_WILRD1 3	115	10.40	528185	N_LOVING 7	345	5.43
524623	DEAFSMITH 6	230	13.77	527051	ODC_TP 3	115	13.02	528223	CHINA_DRAW 7	345	4.25
524908	ROOSEVELT 3	115	10.38	527062	SHELL_CO2 3	115	15.68	528317	ENRON_TP 3	115	6.74
524909	ROSEVELT_N 6	230	8.99	527080	EL_PASO 3	115	15.46	528325	LE-WAITS 3	115	6.66
524911	ROSEVELT_S 6	230	8.99	527105	SAN_ANDS_TP3	115	16.30	528333	LE-WEST_SUB3	115	8.27
524915	SW_4K33 6	230	8.99	527125	DENVER_CTY 2	69	8.60	528334	LE-NRTH_INT3	115	8.20
525461	NEWHART 6	230	11.09	527130	DENVER_N 3	115	20.57	528348	BUCKEYE_TP 3	115	8.04
525480	PLANT_X 3	115	14.60	527136	DENVER_S 3	115	20.57	528353	MADDOXG23 3	115	24.45
525481	PLANT_X 6	230	23.79	527146	MUSTANG 3	115	22.12	528355	MADDOX 3	115	24.45
525524	TOLK_EAST 6	230	30.09	527149	MUSTANG 6	230	15.42	528385	BUCKEYE 3	115	7.25
525531	TOLK_WEST 6	230	30.09	527151	GS-MUSTANG 6	230	15.42	528392	PEARLE 3	115	6.23
525543	TOLK_TAP 6	230	30.09	527194	LG-PLSHILL 3	115	7.48	528394	QUAHADA 3	115	8.04
525549	TOLK 7	345	15.36	527201	SEAGRAVES 2	69	5.39	528399	LEA_NATIONL3	115	6.78
525636	LAMB_CNTY 3	115	9.18	527202	SEAGRAVES 3	115	8.47	528413	TAYLOR 3	115	13.85
525637	LAMB_CNTY 6	230	5.51	527238	ROZ 3	115	9.21	528422	DCP_ZIA TP 3	115	6.98
525828	TUCO_INT 3	115	20.21	527242	AMERADA 3	115	9.31	528433	BENSING 3	115	7.86
525830	TUCO_INT 6	230	24.60	527262	SULPHUR 3	115	5.64	528435	MILLEN 3	115	11.17
525832	TUCO_INT 7	345	15.97	527275	SEMINOLE 3	115	11.33	528442	NE_HOBBS 3	115	11.45
525840	ANTELOPE_1 6	230	24.38	527276	SEMINOLE 6	230	7.20	528463	SANGER_SW 3	115	15.12
525850	ELK_CT1	345	15.77	527284	RUSSELL 3	115	8.94	528484	SW_4J44 3	115	10.81
525957	HALE_WNDCL16	230	9.41	527286	XTO_RUSSEL 3	115	9.88	528491	MONUMENT 3	115	14.68
526036	LC-OPDYKE 3	115	5.76	527322	GAINES 3	115	8.47	528498	W_HOBBS 3	115	11.34
526161	CARLISLE 6	230	13.95	527340	DOSS 3	115	7.10	528568	MONUMNT_TP 3	115	9.85
526269	LUBBCK_STH 6	230	19.27	527362	JOHNSON_DRW3	115	10.35	528575	OXYPERMIAN 3	115	14.55
526337	JONES 6	230	21.30	527363	HIGG 3	115	10.04	528582	BYRD 3	115	7.69
526350	LEHMAN_TP 3	115	5.39	527483	CHAVES_CNTY6	230	4.46	528589	DRINKARD 3	115	7.85
526424	PACIFIC 3	115	9.16	527656	CROSSROADS 7	345	9.17	528602	ANDREWS 3	115	10.43
526434	SUNDOWN 3	115	10.80	527793	EDDY_STH 3	115	11.54	528603	NA_ENRICH 3	115	10.22
526435	SUNDOWN 6	230	11.04	527798	EDDY_NTH 3	115	11.54	528604	ANDREWS 6	230	6.41
526445	AMOCO_TP 3	115	10.13	527799	EDDY_NORTH 6	230	8.90	528605	TARGA 3	115	8.45
526460	AMOCO_SS 6	230	9.68	527802	EDDY_CNTY 7	345	6.91	528618	LE-LOVINTON2	69	7.06
526491	LG-CLAUENE 3	115	7.84	527864	CUNNINHAM 3	115	25.53	528626	LE-PLNSINT 2	69	4.37
526524	WOLFFORTH 3	115	11.62	527865	CUNNIGHM_N 6	230	14.07	528627	LE-TXACO_TP3	115	6.95
526525	WOLFFORTH 6	230	13.79	527867	CUNNIGHM_S 6	230	14.07	528740	LE-PLANS_TP2	69	3.64
526735	TERRY_CNTY 2	69	6.94	527891	HOBBS_INT 3	115	28.88	560021	CRAWFISH_DR2	230	20.81
526736	TERRY_CNTY 3	115	10.31	527894	HOBBS_INT 6	230	16.14	560022	CRAWFISH_DR	345	16.05
526784	AMOCOWASSON6	230	13.69	527896	HOBBS_INT 7	345	8.69	560059	G1579&G1580T	230	8.85
526792	PRENTICE 3	115	5.87	527930	PCA 3	115	11.38	562480	G13-027-TAP	230	9.39
526928	PLAINS_INT 3	115	9.63	527962	POTASH_JCT 3	115	15.85	583840	GEN-2013-027	230	8.90
526934	YOAKUM 3	115	16.47	527963	POTASH_JCT 6	230	6.97	585003	CFSHDRW_SVC	345	16.05
526935	YOAKUM 6	230	17.23	527965	KIOWA 7	345	7.51	587110	GEN-2016-015	230	6.22
526936	YOAKUM_345	345	8.95	527966	KIOWA 3	115	15.82	587420	GEN-2016-062	230	5.48
526944	LG-PLAINS 3	115	7.67	528025	RDRUNNER 3	115	9.28	587670	GEN-2015-099	115	16.08
527009	BRU_SUB 6	230	13.74	528027	RDRUNNER 7	345	4.44	588350	GEN-2016-171	230	8.63
527010	OXYBRU 6	230	13.63	528095	7-RIVERS 6	230	6.11	599960	EPTNP-D6	230	8.90
527018	BENNETT 3	115	13.00								

Table 4-13
Short Circuit Analysis for Study Project GEN-2016-172 (26SP)

Study Generator GEN-2016-172											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
511456	O.K.U.-7	345	5.25	524606	HEREFORD 3	115	13.39	525446	RKYFORD_TP 3	115	9.87
511468	L.E.S.-7	345	14.03	524622	DEAFSMITH 3	115	15.52	525453	HALE_CNTY 2	69	6.91
511553	CHISHOLM7	345	11.09	524623	DEAFSMITH 6	230	14.03	525454	HALE_CNTY 3	115	10.16
515458	BORDER 7	345	9.27	524629	DS-#6 3	115	6.74	525460	NEWHART 3	115	16.84
522800	MU-TULIA 3	115	5.24	524681	DIMMIT_E&S 2	69	2.80	525461	NEWHART 6	230	11.27
523093	HITCHLAND 3	115	18.14	524688	DS-#3 2	69	2.97	525480	PLANT_X 3	115	17.90
523095	HITCHLAND 6	230	15.55	524694	DS-#22 3	115	4.63	525481	PLANT_X 6	230	24.59
523097	HITCHLAND 7	345	17.00	524714	CASTRO_TP 2	69	3.54	525524	TOLK_EAST 6	230	30.76
523101	NOBLE_WND 7	345	16.92	524721	DS-#15&#19+2	69	3.56	525531	TOLK_WEST 6	230	30.76
523112	NOVUS1 7	345	16.65	524728	DS-CASTRO 2	69	4.29	525543	TOLK_TAP 6	230	30.76
523155	OCHILTREE 6	230	4.26	524734	DS-#21 3	115	9.47	525549	TOLK 7	345	15.53
523177	RB-SPURLCK+3	115	5.88	524745	CASTRO_CNTY2	69	8.87	525635	LAMB_CNTY 2	69	5.90
523215	FREWHELCOL17	345	9.78	524746	CASTRO_CNTY3	115	9.97	525636	LAMB_CNTY 3	115	8.46
523216	RB-HOGUE 3	115	4.14	524757	BETHEL_COL13	115	8.28	525637	LAMB_CNTY 6	230	5.42
523220	XIT_INTG 3	115	6.11	524770	PLSNT_HILL 6	230	6.20	525731	SP-ABERNTHY2	69	3.02
523221	XIT_INTG 6	230	3.25	524908	ROOSEVELT 3	115	10.34	525738	HALECENTER 2	69	2.46
523256	ETTER 3	115	5.66	524909	ROSEVELT_N 6	230	9.01	525745	LH-HALECTR 2	69	2.44
523266	PRINGLE 3	115	10.65	524911	ROSEVELT_S 6	230	9.01	525779	FLOYD_CNTY 2	69	5.33
523267	PRINGLE 6	230	4.28	524915	SW_4K33 6	230	9.01	525780	FLOYD_CNTY 3	115	6.07
523277	VALERO 3	115	10.73	525018	EMULESH&VLY3	115	4.83	525816	TUCO_INT2 2	69	4.68
523304	MOORE_W 3	115	11.88	525019	EMU&VLY_TP 3	115	5.14	525826	TUCO_INT 2	69	7.94
523308	MOORE_E 3	115	11.88	525028	BAILEYCO 3	115	5.01	525828	TUCO_INT 3	115	20.27
523309	MOORE_CNTY 6	230	7.01	525050	BC-KELLEY +3	115	7.76	525830	TUCO_INT 6	230	24.60
523551	HUTCHISON 6	230	7.27	525056	BC-EARTH 3	115	8.18	525832	TUCO_INT 7	345	16.02
523771	GRAPEVINE 6	230	5.81	525116	DS-#12 2	69	2.38	525840	ANTELOPE_1 6	230	24.37
523823	WALKEMEYER 7	345	8.36	525119	BC-SUNYSIDE2	69	1.32	525853	LH-WIL&ELN+2	69	2.58
523869	CHAN+TASCOS6	230	4.38	525124	HART_INDUST3	115	7.79	525885	SP-NEWDEAL 2	69	3.32
523959	POTTER_CO 6	230	22.99	525129	LC-HART 2	69	2.57	525926	CROSBY 3	115	4.52
523961	POTTER_CO 7	345	11.49	525132	LC-N_OLTON 2	69	3.08	525957	HALE_WNDCL16	230	9.41
523977	HARRNG_WST 6	230	27.63	525143	HAPPY_CTYTP2	69	4.03	526020	HOCKLEY 3	115	5.42
523978	HARRNG_MID 6	230	27.63	525153	HAPPY_INT 2	69	4.46	526036	LC-OPDYKE 3	115	5.71
523979	HARRNG_EST 6	230	27.63	525154	HAPPY_INT 3	115	5.50	526076	STANTON_W 3	115	9.14
524007	ROLLHILLS 3	115	19.75	525179	TULIA_TP 3	115	6.52	526146	INDIANA 3	115	9.54
524009	CHERRY 3	115	18.87	525191	KRESS_INT 2	69	4.52	526161	CARLISLE 6	230	11.36
524010	ROLLHILLS 6	230	20.69	525192	KRESS_INT 3	115	12.18	526268	LUBBCK_STH 3	115	19.34
524043	NICHOLS 3	115	31.27	525203	SW-KRESS 2	69	4.52	526269	LUBBCK_STH 6	230	18.15
524044	NICHOLS 6	230	26.73	525212	SWISHER 3	115	11.72	526297	LUBBCK_EST 2	69	8.07
524106	NORTHWEST 3	115	11.38	525213	SWISHER 6	230	10.60	526298	LUBBCK_EST 3	115	15.46
524136	HASTINGS 3	115	13.92	525224	KRESS_RURL 2	69	2.53	526299	LUBBCK_EST 6	230	13.33
524163	EAST_PLANT 6	230	14.09	525225	KRESS_RURAL3	115	6.47	526337	JONES 6	230	20.53
524266	BUSHLAND 3	115	9.61	525249	LH-PLW&FNY+2	69	1.61	526424	PACIFIC 3	115	9.15
524267	BUSHLAND 6	230	10.87	525256	SW_9748 2	69	3.10	526434	SUNDOWN 3	115	10.79
524276	WILDOR_WND 6	230	5.23	525257	N_PLAINVEW 3	115	5.17	526435	SUNDOWN 6	230	11.05
524290	WILDOR2_JUS6	230	7.13	525271	KISER 2	69	3.48	526445	AMOCO_TP 3	115	10.12
524296	SPNSPUR_WND7	345	5.55	525272	KISER 3	115	5.17	526460	AMOCO_SS 6	230	9.70
524300	HILLSIDE 3	115	12.79	525284	WESTRIDGE 2	69	4.27	526524	WOLFFORTH 3	115	11.54
524364	RANDALL 3	115	21.73	525291	PLAINVW_TP 2	69	6.49	526525	WOLFFORTH 6	230	13.56
524365	RANDALL 6	230	14.82	525298	S_PLAINVEW 2	69	2.58	526935	YOAKUM 6	230	17.54
524377	FARMERS 3	115	15.41	525307	E_PLAINVEW 2	69	2.45	527656	CROSSROADS 7	345	9.23
524397	ARROWHEAD 3	115	13.74	525316	LH-PROVDNCE2	69	3.37	560010	G14-037-TAP	345	16.76
524404	OWENSCORN 3	115	15.08	525325	COX 2	69	3.37	560021	CRAWFISH_DR2	230	20.84
524414	AMA_SOUTH 3	115	16.95	525326	COX 3	115	5.95	560022	CRAWFISH_DR	345	16.10
524415	AMA_SOUTH 6	230	13.83	525339	AIKEN_RURL 2	69	2.45	560035	GRAPEVINE	345	6.34
524530	PALO_DURO 3	115	6.80	525393	ROCKYFORD 3	115	8.84	562004	G11-025-TAP	115	4.64
524544	SPRING_DRW 3	115	6.41	525397	OLTON 2	69	4.19	562480	G13-027-TAP	230	9.44
524556	LAPLATA 3	115	6.85	525404	LC-OLTON 2	69	4.50	576395	GEN-2010-014	345	12.11
524567	NE_HEREFORD3	115	11.67	525413	LAMTON 2	69	5.19	583840	GEN-2013-027	230	8.95
524573	NE_HEREFORD2	69	7.29	525414	LAMTON 3	115	7.67	585003	CRFSDRW_SVC	345	16.10
524590	DAWN 3	115	6.76	525425	CORNER 2	69	3.63	587570	ASGI1604	115	6.80
524597	PANDAHFD 3	115	10.48	525432	SP-HALFWAY+2	69	5.87	588440	GEN-2016-172	115	14.18
524604	HEREFRD_SB 2	69	4.66	525440	LC-S_OLTON+3	115	7.18	599955	PNM-DC6	230	9.01
524605	HEREFRD_NB 2	69	4.66								

Table 4-14
Short Circuit Analysis for Study Project GEN-2016-177 (26SP)

Study Generator GEN-2016-177											
Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)	Bus Number	Bus Name	Bus Voltage (kV)	Fault Current 3-LG (kA)
526736	TERRY_CNTY 3	115	10.31	527130	DENVER_N 3	115	20.69	528638	LE-SAUNDRTP2	69	3.55
527021	CORTEZ 3	115	6.39	527136	DENVER_S 3	115	20.69	528667	LE-MHOON 2	69	4.37
527022	APACHE_ROB 3	115	7.21	527146	MUSTANG 3	115	22.25	528675	LE-FAMARISS2	69	3.31
527024	ALLRED_SUB 3	115	7.91	527149	MUSTANG 6	230	15.58	528679	LE-TATUM_SW2	69	4.87
527030	ALRDCRTZ_TP3	115	8.70	527183	JAYBEE 2	69	4.36	528699	LE-GRAY 2	69	4.13
527036	SHELL_C2 3	115	12.84	527202	SEAGRAVES 3	115	8.49	528703	LE-DENTN_TP2	69	3.89
527062	SHELL_CO2 3	115	15.75	527275	SEMINOLE 3	115	11.38	528709	LE-FTS_COND2	69	2.91
527068	SHELLC3_TP 3	115	10.63	527286	XTO_RUSSEL 3	115	9.93	528711	LE-TP89 2	69	1.91
527074	SHELLC3 3	115	9.56	527313	MIDAMERI_TP2	69	2.15	528714	LE-FORT_SW 2	69	3.10
527080	EL_PASO 3	115	15.52	527891	HOBBS_INT 3	115	29.89	528718	LE-NEWTEX 2	69	1.91
527099	DC_EAST 2	69	6.08	528325	LE-WAITS 3	115	6.68	528759	LE-TP51 2	69	2.19
527105	SAN_ANDS_TP3	115	16.37	528333	LE-WEST_SUB3	115	8.32	528780	LE-NITROTEC2	69	1.93
527106	SAN_ANDRES 3	115	11.67	528334	LE-NRTH_INT3	115	8.24	588460	A16-008SUB	115	9.20
527111	WASSON 2	69	5.95	528617	LE-WAITS 2	69	3.28	588462	A16-008TP	115	9.20
527125	DENVER_CTY 2	69	8.61	528618	LE-LOVINTON2	69	7.08				

SECTION 5: CONCLUSIONS

Summary of Stability Analysis

The Stability Analysis determined that there were multiple contingencies across all seasons that resulted in system/voltage instability, generation tripping offline, and poor post-fault voltage recovery when all generation interconnection requests were at 100% output.

To mitigate the system/voltage instability, voltage violations, generation tripping offline, and poor post-fault steady-state voltages, the following upgrades were provided by SPP and implemented (upgrades provided here are required for 17W season and thus, implemented in remaining years):

- Hobbs to Yoakum to Tuco 345 kV circuit #1 (advancement in 17W and 18S)
- Yoakum 345/230 kV transformer #1 (advancement in 17W and 18S)
- Beaver to Clark County 345 kV circuit #1 (previously assigned)
- Border 345 kV 50 MVAR capacitor bank
- Crawfish Draw 345 kV 200 MVAR capacitor bank & +225/-150 MVAR SVC
- Crossroads 345 kV 20 MVAR capacitor bank
- Oklaunion 345 kV 130 MVAR capacitor bank & +300/-150 MVAR SVC
- Potter County 345 kV 100 MVAR capacitor bank
- Crawfish Draw to Lawton Eastside 345 kV circuit #1
- Chisholm to Potter County 345 kV circuit #1

After implementing the above upgrades, the contingency analysis was re-simulated for all contingencies. With the upgrades, the Stability Analysis determined that there was no wind turbine tripping or system instability observed as a result of interconnecting all study projects at 100% output.

Summary of the Short Circuit Analysis

The short circuit analysis was performed on the 2018 Summer Peak and 2026 Summer Peak power flows for all study projects. Refer to Table 5-1 and Table 5-2 for a list of maximum fault currents observed for each study project for the 18S and 26S cases, respectively.

Table 5-1
2018S: List of Maximum Fault Currents Observed for Each Study Project

Study Project	Fault Current at POI (kA)	Maximum Fault Current (kA)	Fault Location
ASGI-2016-009	11.19	30.76	Tolk 230 kV
GEN-2015-099	24.45	28.88	Hobbs 115 kV
GEN-2016-121	9.28	28.88	Hobbs 115 kV
GEN-2016-123	9.23	30.76	Tolk 230 kV
GEN-2016-124	9.23	30.76	Tolk 230 kV
GEN-2016-125	9.23	30.76	Tolk 230 kV
GEN-2016-171	9.14	30.76	Tolk 230 kV
GEN-2016-172	16.84	31.27	Nichols 115 kV
GEN-2016-177	9.17	28.88	Hobbs 115 kV

Table 5-2
2026S: List of Maximum Fault Currents Observed for Each Study Project

Study Project	Fault Current at POI (kA)	Maximum Fault Current (kA)	Fault Location
ASGI-2016-009	11.30	30.09	Tolk 230 kV
GEN-2015-099	24.96	29.89	Hobbs 115 kV
GEN-2016-121	9.38	29.89	Hobbs 115 kV
GEN-2016-123	9.17	30.09	Tolk 230 kV
GEN-2016-124	9.17	30.09	Tolk 230 kV
GEN-2016-125	9.17	30.09	Tolk 230 kV
GEN-2016-171	8.85	30.09	Tolk 230 kV
GEN-2016-172	16.84	31.27	Nichols 115 kV
GEN-2016-177	9.20	29.89	Hobbs 115 kV