

Definitive Interconnection
System Impact Study for
Generation Interconnection
Requests

(DISIS-2014-002-5)

Group 6 Restudy

(Cost Allocation for All Groups included)

February 2016

Generator Interconnection

Revision History

Date	Author	Change Description
01/30/2015	SPP	Report Issued (DISIS-2014-002)
05/18/2015	SPP	Account for Withdrawn Projects, Report Re-Posted (DISIS-2014-002-1)
05/27/2015	SPP	Corrected errors from 5/18/2015 posting. Added reference in Group 13 power flow and stability sections.
07/10/2015	SPP	Analysis for Group 6 only. Cost allocation for all projects. To account for Withdrawn Projects, Report Re-Posted (DISIS-2014-002-2)
09/11/2015	SPP	Analysis for Group 3 only. Cost allocation for all projects. To account for Withdrawn Projects, Report Re-Posted (DISIS-2014-002-3)
11/02/2015	SPP	Analysis for Group 6 only. Cost allocation for all projects. To account for Withdrawn Projects, Report Re-Posted (DISIS-2014-002-4)
02/01/2016	SPP	Analysis for Group 6 only. Cost allocation for all projects. To account for Withdrawn Projects, Report Re-Posted (DISIS-2014-002-5)

Executive Summary

Pursuant to the Generator Interconnection Procedures (GIP) of the Southwest Power Pool (SPP) Open Access Transmission Tariff (OATT), SPP has conducted this Definitive Interconnection System Impact Study (DISIS). The Interconnection Customers' requests have been clustered together for the following System Impact Cluster Study window which closed September 30, 2014. The customers will be referred to in this study as the DISIS-2014-002 Interconnection Customers. This System Impact Study analyzes the interconnecting of multiple generation interconnection requests associated with new generation totaling approximately 2,511.40 MW of new generation which would be located within the transmission systems of American Electric Power – Western (AEPW), Empire District Electric Company (EMDE), Kansas City Power and Light Company – Greater Missouri Operations Company (KCPL-GMO), Grand River Dam Authority (GRDA), Midwest Energy, Inc. (MIDW), Nebraska Public Power District (NPPD), Oklahoma Gas and Electric (OKGE), Southwestern Public Service (SPS) and Sunflower Electric Power Corporation\Mid-Kansas Electric Company, LLC (SUNC\MKEC). The various generation interconnection requests have differing proposed in-service dates¹. The generation interconnection requests included in this System Impact Cluster Study are listed in Appendix A by their queue number, amount, requested interconnection service, area, requested interconnection point, proposed interconnection point, and the requested in-service date. This analysis represents a restudy of the "Stand-Alone" analysis for each Interconnection Request to account for all Interconnection Requests that have met the requirements for an Interconnection Facilities Study that was performed in the original DISIS-2014-002 study. This analysis also includes an analysis of Limited Operation that determines available Interconnection Service assuming all DISIS-2014-002 Customers move forward.

This study, DISIS-2014-002-5, is being performed due to the withdrawal of Interconnection Requests in Group 6. The Interconnection Requests that withdrew were GEN-2014-053 and GEN-2014-054. This study includes a restudy of power flow and stability for Group 6 Interconnection Requests only. Cost Allocation for the remaining Interconnection Requests in DISIS-2014-002 are also included.

Power flow analysis has indicated that for the power flow cases studied, 2,511.40 MW of nameplate generation may be interconnected with transmission system reinforcements within the SPP transmission system. Dynamic stability and power factor analysis has determined the need for reactive compensation in accordance with SPP stability and voltage recovery requirements and FERC Order #661A for wind farm interconnection requests and those requirements are listed for each interconnection request within the contents of this report. Dynamic stability analysis has determined that the transmission system will remain stable with the assigned Network Upgrades

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 Facility Study's time for completion of the Network Upgrades necessary or as otherwise provided for in the GIP.

and necessary reactive compensation requirements. A short circuit analysis has been performed with available short circuit values given in the stability study for each group in the appendices of this report.

In no way does this study guarantee operation for all periods of time. This interconnection study identifies and assigns transmission reinforcements for Energy Resource (ER) interconnection injection constraints (defined as a 20% distribution factor impact for outage based constraints and 3% distribution factor for system intact constraints) and Network Resource (NR) constraints (defined as 3% distribution factor impact), if requested by the Customer. These constraints are listed in Appendix G. This interconnection study does not assign transmission reinforcements for all potential transmission constraints. 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.

The total estimated minimum cost for interconnecting the DISIS-2014-002 Interconnection Customers is estimated at \$172,712,392. These costs are shown in Appendix E and F. Interconnection Service to DISIS-2014-002 Interconnection Customers is also contingent upon higher queued customers paying for certain required network upgrades. **The in-service date for the DISIS customers will be deferred until the construction of these network upgrades can be completed.**

These costs do not include the Interconnection Customer Interconnection Facilities as defined by the SPP Open Access Transmission Tariff (OATT). This cost does not include additional network constraints in the SPP transmission system identified and shown in Appendix H.

Additional network constraints listed in Appendix H are in the local area of the new generation when this generation is injected throughout the SPP footprint for Energy Resource Interconnection Service (ERIS) requests. Certain Interconnection Requests were also studied for Network Resource Interconnection Service (NRIS). Those constraints are also listed in Appendix H. Constraints listed in Appendix H do not require transmission reinforcement for Interconnection Service. Additional network constraints will have to be verified with a Transmission Service Request (TSR) and associated studies. With a defined source and sink in a TSR, this list of Network Constraints will be refined and expanded to account for all Network Upgrade requirements.

The required interconnection costs listed in Appendix E and F 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 through SPP's Open Access Same Time Information System (OASIS) as required by Attachment Z1 of the SPP OATT.

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Introduction

Pursuant to the Southwest Power Pool (SPP) Open Access Transmission Tariff (OATT), SPP has conducted this Definitive Interconnection System Impact Study (DISIS) for certain generation interconnection requests in the SPP Generation Interconnection Queue. These interconnection requests have been clustered together for the following System Impact Study window which closed September 30, 2014. The customers will be referred to in this study as the DISIS-2014-002 Interconnection Customers. This DISIS analyzes the interconnecting of multiple generation interconnection requests associated with new generation totaling 2,511.40 MW of new generation which would be located within the transmission systems of American Electric Power –Western (AEPW), Empire District Electric Company (EMDE), Kansas City Power and Light Company – Greater Missouri Operations Company (KCPL-GMO), Grand River Dam Authority (GRDA), Midwest Energy, Inc. (MIDW), Nebraska Public Power District (NPPD), Oklahoma Gas and Electric (OKGE), Southwestern Public Service (SPS) and Sunflower Electric Power Corporation\Mid-Kansas Electric Company, LLC (SUNC\MKEC). The various generation interconnection requests have differing proposed in-service dates². The generation interconnection requests included in this System Impact Study are listed in Appendix A by their queue number, amount, requested interconnection service, area, requested interconnection point, proposed interconnection point, and the requested in-service date. This analysis represents a restudy of the “Stand-Alone” analysis for each Interconnection Request to account for all Interconnection Requests that have met the requirements for an Interconnection Facilities Study that was performed in the original DISIS-2014-002 study. This analysis also includes an analysis of Limited Operation that determines available Interconnection Service assuming all DISIS-2014-002 Customers move forward.

This study, DISIS-2014-002-5, is being performed due to the withdrawal of an Interconnection Requests in Group 6. The Interconnection Requests that withdrew were GEN-2014-053 and GEN-2014-054. This study includes a restudy of power flow and stability for Group 6 Interconnection Requests only. Cost Allocation for the remaining Interconnection Requests in DISIS-2014-002 are also included.

The primary objective of this DISIS is to identify the system constraints associated with connecting the generation to the area transmission system. The Impact Study and other subsequent Interconnection Studies are designed to identify required interconnection facilities, Network Upgrades and other Direct Assignment Facilities needed to accept power into the grid at each specific interconnection receipt point.

² 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.

Model Development

Interconnection Requests Included in the Cluster

SPP included all interconnection requests that submitted a Definitive Interconnection System Impact Study Agreement no later than September 30, 2014 and were subsequently accepted by Southwest Power Pool under the terms of the Generator Interconnection Procedures (GIP) that were in effect at the time this study commenced on October 1, 2014. The interconnection requests that are included in this study are listed in Appendix A.

Affected System Interconnection Request

Also included in this Definitive Interconnection System Impact Study is seven (7) Affected System Studies. The Affected System Interconnection Requests have been given the designations with the “ASGI” prefix. These requests are listed in Appendix A. Affected System Interconnection Requests were studied only in a “cluster” scenario.

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 projects were dispatched as Energy Resources with equal distribution across the SPP footprint. Prior queued projects that requested Network Resource Interconnection Service (NRIS) were dispatched in an additional analysis into the balancing authority of the interconnecting transmission owner.

Development of Base Cases

Power Flow

The 2015 series Integrated Transmission Planning models (used in the 2016ITPNT) including the 2016 Winter, 2017 Spring and Summer, 2020 Light Load, Summer and Winter, and the 2025 Summer seasons scenario 0 cases were used for this study. After the cases were developed, each of the control areas’ resources were then re-dispatched to account for the new generation requests using current dispatch orders. Planned High Priority Incremental Loads (HPILs) are accounted for in these models.

Dynamic Stability

The 2015 series SPP Model Development Working Group (MDWG) Models 2016 winter, 2017 summer, and 2025 summer peak cases were used as starting points for this study.

Short Circuit

The 2025 summer peak stability case was used for this analysis.

Base Case Upgrades

The following facilities are part of the 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-2014-002 Interconnection Customers have not been assigned advancement costs for the below listed projects. The DISIS-2014-002 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.

- 2012 Integrated Transmission Plan (2012 ITP10) Projects
 - Woodward-Tatonga-Mathewson-Cimarron 345kV transmission line, scheduled for 2021 in-service³
 - Chisholm – Gracemont 345kV transmission line, and Chisholm 345/230kV transformer circuit #1, scheduled for 3/1/2018 in-service⁴
- 2015 Integrated Transmission Plan Near Term (2015 ITPNT) Projects
 - China Draw 115kV Reactive Power Support
 - 200Mvar Capacitive and 50Mvar Inductive Static Var Compensator (SVC)
 - Road Runner 115kV Reactive Power Support
 - 200Mvar Capacitive and 50Mvar Inductive Static Var Compensator (SVC)
 - Potash Junction – Intrepid – IMC #1 – Livingston Ridge 115kV rebuild
- Balanced Portfolio Projects⁵:
 - Iatan – Nashua 345/161 kV Project, placed in-service in 2015
 - Iatan – Nashua 345 kV circuit #1 and associated terminal equipment
 - Nashua 345/161/13 kV autotransformer circuit #1
- Nebraska City – Mullin Creek – Sibley 345kV circuit #1 build, scheduled for 12/31/2016 in-service⁶
- Northwest 345/138/13.8 kV circuit #3 autotransformer, placed in-service in 2015⁷
- Hoskins – Neligh East 345/115 kV Project⁸
 - Neligh East 345/115 kV substation and transformer
 - Neligh East Area 115 kV upgrades to support new station
 - Hoskins – Neligh East 345 kV circuit #1
- High Priority Incremental Loads (HPILs) Projects⁹:
 - TUCO Interchange – Yoakum – Hobbs Interchange 345/230 kV Project
 - TUCO Interchange – Yoakum – Hobbs Interchange 345 kV circuit #1 and associated terminal equipment upgrades
 - Hobbs 345/230/13 kV transformer circuit #1
 - Yoakum 345/230/13 kV transformer circuit #1

³ SPP Notification to Construct (NTC) 200223

⁴ SPP Notification to Construct (NTC) 200240 and 200255

⁵ SPP Notification to Construct (NTC) issued June 2009

⁶ SPP Notification to Construct (NTC) 20097 and 20098

⁷ SPP Transmission Service Project identified in SPP 2009-AG2-AFS6. Per SPP NTC 20137 & 200194

⁸ SPP Regional Reliability 2012 ITP 10 Project Per SPP-NTC-200220

⁹ Per Network Upgrades assigned in High Priority Incremental Loads (HPILs) study, Including Direct Assigned Upgrades, Projects in SPP-NTC-200256 and SPP-NTC-200283.

- Battle Axe – Road Runner 115 kV circuit #1
- Chaves County – Price – CV Pines – Capitan 115 kV circuit #1
- China Draw – Yeso Hills 115 kV circuit #1
- Dollarhide – Toboso Flats 115 kV circuit #1
- Hobbs Interchange – Kiowa 345 kV circuit #1
- Kiowa – North Loving – China Draw 345/115 kV Projects
 - Kiowa – North Loving – China Draw circuit #1 and associated terminal equipment upgrades
 - China Draw 345/115/13 kV transformer circuit #1
 - North Loving 345/115/13 kV transformer circuit #1
- Kiowa – Road Runner 345/230/115 kV Projects
 - Kiowa 345/230 kV transformer circuit #1
 - Road Runner 345/115/13 kV transformer circuit #1
- Livingston Ridge – Sage Brush – Lagarto – Cardinal 115 kV circuit #1
- North Loving – South Loving 115 kV circuit #1
- Ponderosa – Ponderosa Tap 115 kV circuit #1
- Potash 230/115/13kV Transformer circuit #1 replacement

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 the DISIS-2014-002 study and are assumed to be in service. This list may not be all inclusive. The DISIS-2014-002 Interconnection Customers, at this time, do not have responsibility for these facilities but may later be assigned the cost of these facilities if higher queued customers terminate their Generation Interconnection Agreement or withdraw from the interconnection queue. The DISIS-2014-002 Interconnection Customer Generation Facilities in-service dates may need to be delayed until the completion of the following upgrades.

- Upgrades assigned to DISIS-2010-002 Interconnection Customers:
 - Twin Church – Dixon County 230 kV circuit #1 rerate (320 MVA)
 - Buckner – Spearville 345 kV terminal equipment
- Upgrades assigned to DISIS-2011-001 Interconnection Customers:
 - Hoskins – Dixon County – Twin Church 230 kV circuit #1 conductor clearance increase
 - (NRIS only) Woodward District Phase Shifting Transformer
- Upgrades assigned to DISIS-2012-002 Interconnection Customers:
 - Amoco Wasson – Oxy Tap 230 kV circuit #1 replace line traps
 - Associated Electric Cooperatives Inc. (AECI) Fairfax 138/69 kV transformer replacement
 - Lake Creek – Lone Wolf 69 kV circuit #1 reset CT
 - Remington – Fairfax 138 kV circuit #1 conductor clearance increase
- Upgrades assigned to DISIS-2013-002 Interconnection Customers:
 - Battle Creek – County Line – Neligh East 115kV circuit #1 rebuild

Potential Upgrades Not in the Base Case

Any potential upgrades that do not have a Notification to Construct (NTC) and 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 were grouped together into ten (10) active regional groups based on geographical and electrical impacts. These groupings are shown in Appendix C.

To determine interconnection impacts, ten (10) different generation dispatch scenarios of the spring, summer, and winter base case models were developed to accommodate the regional groupings.

Power Flow

For Energy Resource Interconnection Service (ERIS), the generating plants were modeled at 100% nameplate of maximum generation. The generating plants in the remote areas were modeled at 20% nameplate of maximum generation. These projects were dispatched as Energy Resources with a load factor by area distribution across the SPP footprint. All generators that requested Network Resource Interconnection Service (NRIS) were dispatched in an additional analysis into the balancing authority of the interconnecting transmission owner at 100% nameplate with Energy Resource Interconnection Service (ERIS) only requests at 80% nameplate. This method allowed for the identification of network constraints that were common to the regional groupings that could then in turn have the mitigating upgrade cost allocated throughout the entire cluster.

Peaking units were not dispatched in the 2017 spring model. To study peaking units' impacts, the 2016 winter and 2017 summer, 2020 summer and winter, and 2025 summer seasonal models were chosen and peaking units were modeled at 100% of the nameplate rating and non-dispatchable generating facilities were modeled at 10% of the nameplate rating. Each interconnection request was also modeled separately at 100% nameplate for certain analyses.

Dynamic Stability

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

Short Circuit

The dynamic stability models (2025 SP) were used for this analysis.

Identification of Network Constraints

The initial set of network constraints were found by using PSS®MUST First Contingency Incremental Transfer Capability (FCITC) analysis on the entire cluster grouping dispatched at the various levels mentioned above. The Energy Resource Interconnection Service (ERIS) constraints were then

screened to determine which of the generation interconnection requests had at least a 20% Distribution Factor (DF) upon outage based constraints (n-1) and 3% DF upon system intact constraints (n-0). In addition, stability issues are also considered for transmission reinforcement under ERIS. Interconnection Requests that have requested Network Resource Interconnection Service (NRIS) were also studied in the NRIS analysis to determine if any constraint measured at least a 3% DF. If so, these constraints were also considered for mitigation under NRIS.

Constraints that were identified and require transmission reinforcement are listed in Appendix G. These constraints met the criteria for analysis for Energy Resource Interconnection Service and Network Resource Interconnection Service (if requested).

Other network constraints which do not require transmission reinforcements are shown in Appendix H. 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. Additional constraints identified by multi-element contingencies are listed in Appendix I.

In no way does the list of constraints in Appendix G 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.

Determination of Cost Allocated Network Upgrades

Cost Allocated Network Upgrades of wind generation interconnection requests were determined using the 2017 spring model. Cost Allocated Network Upgrades of peaking units was determined using the 2020 summer peak model. A PSS®MUST sensitivity analysis was performed to determine the Distribution Factors (DF), a distribution factor with no contingency that each generation interconnection request had on each new upgrade. The impact each generation interconnection request had on each upgrade project was weighted by the size of each request. Finally the costs due by each request for a particular project were 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 on a given project for all responsible GI requests:

$$\text{Request X Impact Factor on Upgrade Project 1} = \text{PTDF}(\%)(X) * \text{MW}(X) = X1$$

$$\text{Request Y Impact Factor on Upgrade Project 1} = \text{PTDF}(\%)(Y) * \text{MW}(Y) = Y1$$

$$\text{Request Z Impact Factor on Upgrade Project 1} = \text{PTDF}(\%)(Z) * \text{MW}(Z) = Z1$$

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

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

- 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.

Credits/Compensation for Amounts Advanced for Network Upgrades

Interconnection Customer shall be entitled to either credits or potentially Long Term Congestion Rights (LTCR)¹⁰ 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.

Required Interconnection Facilities

The requirement to interconnect the 2,511.40 MW of 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 the cluster total an estimated \$172,712,392. Interconnection Facilities specific to each generation interconnection request are listed in Appendix E. A preliminary one-line drawing for each generation interconnection request are 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" above.

Facilities Analysis

The Transmission Owner for each Interconnection Request has provided its analysis of Interconnection Facilities and Network Upgrades at the Point of Interconnection, shown in Appendix D. This analysis was limited only to the facilities at the substation at the Point of Interconnection. These costs as provided by the Transmission Owners are given with the one-line diagrams in Appendix D and are also listed in Appendix E and F as "Interconnection Costs". These costs will be 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 were

¹⁰ FERC compliance filing pending

either analyzed by the Transmission Owner or by SPP. These additional Network Upgrade costs will be more closely estimated by the Transmission Owner in the Interconnection Facilities Study.

Power Flow Analysis

Power Flow Analysis Methodology

The ACCC function of PSS®E was 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, other control areas external to SPP and the resulting scenarios analyzed. Single element and multi-element contingencies were evaluated.

Power Flow Analysis

A power flow analysis was conducted for each Interconnection Customer's facility using modified versions of the 2016 Winter, 2017 Spring and Summer, 2020 Light Load, Summer and Winter, and the 2025 Summer peak models. The output of the Interconnection Customer's facility was offset in each model by a reduction in output of existing online SPP generation. This method allows the request to be studied as an Energy Resource Interconnection Service request (ERIS). Certain requests that are pursuing Network Resource Interconnection Service (NRIS) had an additional analysis conducted for displacing resources in the interconnecting Transmission Owner's balancing authority.

Cluster Group 1 (Woodward Area)

In addition to the 3,866.5 MW of previously queued generation in the area, 350.0 MW of new interconnection service was studied. This group was not analyzed for this restudy and previously identified results remain valid.

Cluster Group 2 (Hitchland Area)

In addition to the 2,962.7 MW of previously queued generation in the area, 150.0 MW of new interconnection service was studied. This group was not analyzed for this restudy and previously identified results remain valid.

Cluster Group 3 (Spearville Area)

In addition to the 3,105.8 MW of previously queued generation in the area, 99.0 MW of new interconnection service was studied. This group was not analyzed for this restudy and previously identified results remain valid.

Cluster Group 4 (Northwest Kansas Area)

In addition to the 1,339.0 MW of previously queued generation in the area, 123.2 MW of new interconnection service was studied. This group was not analyzed for this restudy and previously identified results remain valid.

Cluster Group 5 (Amarillo Area)

In addition to the 653.5 MW of previously queued generation in the area, 320.4 MW of new interconnection service was studied. This group was not analyzed for this restudy and previously identified results remain valid.

Cluster Group 6 (South Texas Panhandle/New Mexico)

In addition to the 3,454.37 MW of previously queued generation in the area, 459.6 MW of new interconnection service was studied. The Plant X – Tolk 230kV overloads will be mitigated with the reconductor of both circuits. With the withdrawal of GEN-2014-053 and GEN-2014-054, the TUCO 345/230kV transformer overload can be alleviated by replacing the 560MVA transformer with a new transformer rated at 644MVA (summer)/700MVA (winter). The Tuco transformer shows as an overload starting in 2020 and therefore should be able to be replaced in enough time to avoid a limited operation scenario for interested customers.

Cluster ERIS Constraints			
MONITORED ELEMENT	Limiting Rate A/B (MVA)	TC%LOADING (% MVA)	CONTINGENCY
PLANT X STATION - TOLK STATION EAST 230KV CKT 2	502	109.0	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
PLANT X STATION - TOLK STATION WEST 230KV CKT 1	502	109.8	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	109.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2

Cluster NRIS Constraints			
MONITORED ELEMENT	Limiting Rate A/B (MVA)	TC%LOADING (% MVA)	CONTINGENCY
Currently, No NRIS Group 6 constraints			

Group 6 (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.

Limited Operation Analysis		
Interconnection Request	MW	Constraint that limits LOIS
GEN-2013-027	106	Plant X – Tolk 230kV
	60	Tuco 345/230kV xfmr (not a limit provided new transformer can be installed prior to 2020)
GEN-2014-033	50	Plant X – Tolk 230kV
	28	Tuco 345/230kV xfmr (not a limit provided new transformer can be installed prior to 2020)
GEN-2014-034	50	Plant X – Tolk 230kV
	28	Tuco 345/230kV xfmr (not a limit provided new transformer can be installed prior to 2020)
GEN-2014-035	21	Plant X – Tolk 230kV
	12	Tuco 345/230kV xfmr (not a limit provided new transformer can be installed prior to 2020)
GEN-2014-047	28	Plant X – Tolk 230kV
	8	Tuco 345/230kV xfmr (not a limit provided new transformer can be installed prior to 2020)

Cluster Group 7 (Southwestern Oklahoma)

In addition to the 1,751.0 MW of previously queued generation in the area, 0.0 MW of new interconnection service was studied. No new power flow constraints were found in this area.

Cluster Group 8 (North Oklahoma/South Central Kansas)

In addition to the 3,771.9 MW of previously queued generation in the area, 339.8 MW of new interconnection service was studied. This group was not analyzed for this restudy and previously identified results remain valid.

Cluster Group 9 (Nebraska Area)

In addition to the 1,973.1 MW of previously queued generation in the area, 119.4 MW of new interconnection service was studied. This group was not analyzed for this restudy and previously identified results remain valid.

Cluster Group 10 (Southeast Oklahoma/Northeast Texas)

In addition to the 0.0 MW of previously queued generation in the area, 0.0 MW of new interconnection service was studied. No new constraints were found in this area.

Cluster Group 12 (Northwest Arkansas)

In addition to the 30.0 MW of previously queued generation in the area, 0.0 MW of new interconnection service was studied. No new constraints were found in this area.

Cluster Group 13 (Northwest Missouri)

In addition to the 134.6 MW of previously queued generation in the area, 300.0 MW of new interconnection service was studied. This group was not analyzed for this restudy and previously identified results remain valid.

Cluster Group 14 (South Central Oklahoma)

In addition to the 362.5 MW of previously queued generation in the area, 250.0 MW of new interconnection service was studied. This group was not analyzed for this restudy and previously identified results remain valid.

Curtailement 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.

Stability & Short Circuit Analysis

A stability and short circuit analysis was conducted for each Interconnection Customer using modified versions of the 2015 series SPP Model Development Working Group (MDWG) Models 2016 winter, 2017 summer, and 2025 summer peak dynamic cases¹¹. The stability analysis was conducted with all upgrades in service that were identified in the power flow analysis unless otherwise noted in the individual group stability study. For each group, the interconnection requests were studied at 100% nameplate output while the other groups were dispatched at 20% output for non-dispatchable requests and 100% output for other requests. The output of the Interconnection Customer's facility was offset in each model by a reduction in output of existing online SPP generation. Each Interconnection Request was studied in a Stand Alone scenario in addition to the cluster scenario. The following synopsis is included for each group. The entire stability study for each group can be found in the Appendices.

Cluster Group 1 (Woodward Area)

The Group 1 stability analysis was not performed again for this restudy. The original analysis in DISIS-2014-002 is still valid.

Cluster Group 2 (Hitchland Area)

The Group 2 stability analysis was not performed again for this restudy. The original analysis in DISIS-2014-002 is still valid.

Cluster Group 3 (Spearville Area)

The Group 3 stability analysis was not performed again for this restudy. The original analysis in DISIS-2014-002 is still valid.

Cluster Group 4 (Northwest Kansas)

The Group 4 stability analysis was not performed again for this restudy. The original analysis in DISIS-2014-002 is still valid.

Cluster Group 5 (Amarillo Area)

The Group 5 stability analysis was not performed again for this restudy. The original analysis in DISIS-2014-002 is still valid.

Cluster Group 6 (South Texas Panhandle/New Mexico)

A limited stability study was performed by SPP Staff to determine the sensitivity of the withdrawn Interconnection Requests to the potential need for reactive compensation of Oklahoma. Previous stand-alone analysis from the original DISIS-2014-002 was used to confirm the need for the Norton-Pleasant Hill 230kV conversion that is assignable to ASGI-2014-002. The requirements from DISIS-2014-002-5 are listed in the table below. In addition, some Interconnection Requests may have requirements for reactors under low wind conditions as identified in previous reports.

¹¹ Short Circuit analysis performed only on the 2025 Summer Peak seasonal model.

Power Factor Requirements:

Request	Size (MW)	Generator Model	Point of Interconnection	Power Factor Requirement at POI*	
				Lagging (supplying)	Leading (absorbing)
GEN-2013-027**	150	Siemens 2.3MW and 2.415MW	Tap Tolk to Yoakum 230kV (562480)	0.95	0.95
GEN-2014-033	70	GE LV5 1500V 4.0MW inverter	Chaves County 115kV	0.95	0.95
GEN-2014-034	70	GE LV5 1500V 4.0MW inverter	Chaves County 115kV	0.95	0.95
GEN-2014-035	30	GE LV5 1500V 4.0MW inverter	Chaves County 115kV	0.95	0.95
GEN-2014-047**	40	AE 500NX 0.5MW PV inverters	Tap Tolk - Eddy County (Crossroads) 345kV	0.95	0.95
ASGI-2014-002	49.6	SMA SC 800CP 0.8MW PV inverter	Santa Rosa tap - Tucumcari 69kV line	0.95	0.95
ASGI-2014-005	10	Solar PV inverter	Strata 69 kV - bus 528046	0.95	0.95
ASGI-2014-008	10	Solar PV inverter	South Loving 69 kV - bus 528218	0.95	0.95
ASGI-2014-009	10	Solar PV inverter	Wood Draw 115 kV - bus 528228	0.95	0.95
ASGI-2014-010	10	Solar PV inverter	Ochoa 115 kV - bus 528232	0.95	0.95
ASGI-2014-012	10	Solar PV inverter	Cooper Ranch 115 kV - bus 528554	0.95	0.95

*As reactive power is required for all projects, the final requirement in the GIA will be the pro-forma 95% lagging to 95% leading at the point of interconnection.

** Requirement for reactors for low wind conditions

Cluster Group 7 (Southwest Oklahoma)

There were no customers requesting interconnection service in the Southwest Oklahoma area.

Cluster Group 8 (South Central Kansas/North Oklahoma)

The Group 8 stability analysis was not performed again for this restudy. The original analysis in DISIS-2014-002 is still valid.

Cluster Group 9 (Nebraska)

The Group 9 stability analysis was not performed again for this restudy. The original analysis in DISIS-2014-002 is still valid.

Cluster Group 10 (Southeast Oklahoma/Northeast Texas Area)

There were no customers requesting interconnection service in Southeast Oklahoma/Northeast Texas area.

Cluster Group 12 (Northwest Arkansas Area)

There were no customers requesting interconnection service in the Northwest Arkansas area.

Cluster Group 13 (Northwest Missouri Area)

The Group 13 stability analysis was not performed again for this restudy. The original analysis in DISIS-2014-002 is still valid.

Cluster Group 14 (South Central Oklahoma)

The Group 14 stability analysis was not performed again for this restudy. The original analysis in DISIS-2014-002 is still valid.

Conclusion

The minimum cost of interconnecting 2,511.40 MW of new interconnection requests included in this Definitive Interconnection System Impact Study is estimated at \$172,712,392 for the Allocated Network Upgrades and Transmission Owner Interconnection Facilities are listed in Appendix E and F. 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 Network Upgrades determined to be required by the short circuit analysis. These studies will be performed if the Interconnection Customer executes the appropriate Interconnection Facilities Study Agreement and provides the required data along with demonstration of Site Control and the appropriate deposit. At the time of the Interconnection Facilities Study, a better determination of the interconnection facilities may be available.

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

See next page.

A: Generation Interconnection Requests Considered for Study

Request	Amount	Service	Area	Requested Point of Interconnection	Proposed Point of Interconnection	Requested In-Service Date	In Service Date Delayed Until no earlier than*
ASGI-2014-002	49.60	ER	SPS	Tap Tucumcari - Santa Rosa 115kV	Tap Tucumcari - Santa Rosa 115kV		TBD
ASGI-2014-005	10.00	ER	SPS	Strata 69kV	Strata 69kV		TBD
ASGI-2014-008	10.00	ER	SPS	South Loving 69kV	South Loving 69kV		TBD
ASGI-2014-009	10.00	ER	SPS	Wood Draw 115kV	Wood Draw 115kV		TBD
ASGI-2014-010	10.00	ER	SPS	Ochoa 115kV	Ochoa 115kV		TBD
ASGI-2014-012	10.00	ER	SPS	Cooper Ranch 115kV	Cooper Ranch 115kV		TBD
ASGI-2014-014	56.40	ER	GRDA	Ferguson 69kV	Ferguson 69kV		TBD
GEN-2013-010	99.00	ER	SUNCMKEC	Tap Spearville - Post Rock 345kV	Tap Spearville - Post Rock (North of GEN-2011-017 Tap) 345kV	12/31/2017	TBD
GEN-2013-027	150.00	ER	SPS	Tap Tolk - Yoakum 230kV	Tap Tolk - Yoakum 230kV	3/31/2016	TBD
GEN-2014-020	100.00	ER/NR	AEPW	Tuttle 138kV	Tuttle 138kV	12/31/2014	TBD
GEN-2014-021	300.00	ER/NR	KCPL	Tap Nebraska City - Mullens Creek 345kV	Tap Nebraska City - Mullin Creek 345kV	12/1/2016	TBD
GEN-2014-025	2.40	ER	MIDW	Tap Nekoma - Bazine (Walnut Creek) 69kV	Walnut Creek 69kV	10/15/2015	TBD
GEN-2014-026	150.00	ER	OKGE	Beaver County 345kV	Beaver County 345kV	12/31/2016	TBD
GEN-2014-028	35.00	ER	EMDE	Riverton 161kV	Riverton 161kV	1/1/2016	TBD
GEN-2014-031	35.80	ER/NR	NPPD	Meadow Grove 230kV	Meadow Grove 230kV	10/1/2015	TBD
GEN-2014-032	10.20	ER/NR	NPPD	Meadow Grove 230kV	Meadow Grove 230kV	10/1/2015	TBD
GEN-2014-033	70.00	ER	SPS	Chaves County 115kV	Chaves County 115kV	12/31/2016	TBD
GEN-2014-034	70.00	ER	SPS	Chaves County 115kV	Chaves County 115kV	12/31/2016	TBD
GEN-2014-035	30.00	ER	SPS	Chaves County 115kV	Chaves County 115kV	12/31/2016	TBD
GEN-2014-039	73.40	ER/NR	NPPD	Friend 115kV	Friend 115kV	12/1/2016	TBD
GEN-2014-040	320.40	ER	SPS	Castro 115kV	Castro 115kV	9/1/2016	TBD
GEN-2014-041	120.80	ER	SUNCMKEC	Arnold 115kV	Arnold 115kV	3/31/2016	TBD
GEN-2014-047	40.00	ER	SPS	Tap Tolk - Eddy County (Crossroads) 345kV	Crossroads 345kV	12/1/2016	TBD
GEN-2014-056	250.00	ER	OKGE	Minco 345kV	Minco 345kV	12/31/2016	TBD
GEN-2014-057	250.00	ER	AEPW	Tap Lawton - Sunnyside 345kV	Tap Lawton - Sunnyside (Terry Road) 345kV	12/31/2016	TBD
GEN-2014-064	248.40	ER	OKGE	Otter 138kV	Otter 138kV	12/1/2016	TBD
Total:						2,511.40	

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

B: Prior Queued Interconnection Requests

See next page.

B: Prior Queued Interconnection Requests

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
ASGI-2010-006	150.00	AECI	Remington 138kV	AECI queue Affected Study
ASGI-2010-010	42.20	SPS	Lovington 115kV	Lea County Affected Study
ASGI-2010-020	30.00	SPS	Tap LE-Tatum - LE-Crossroads 69kV	Lea County Affected Study
ASGI-2010-021	15.00	SPS	Tap LE-Saunders Tap - LE-Anderson 69kV	Lea County Affected Study
ASGI-2011-001	27.30	SPS	Lovington 115kV	On-Line
ASGI-2011-002	20.00	SPS	Herring 115kV	On-Line
ASGI-2011-003	10.00	SPS	Hendricks 69kV	On-Line
ASGI-2011-004	20.00	SPS	Pleasant Hill 69kV	Under Study (DISIS-2011-002)
ASGI-2012-002	18.15	SPS	FE-Clovis Interchange 115kV	Under Study (DISIS-2012-002)
ASGI-2012-006	22.50	SUNCMKEC	Tap Hugoton - Rolla 69kV	Under Study (DISIS-2012-001)
ASGI-2013-001	11.50	SPS	PanTex South 115kV	Under Study (DISIS-2013-001)
ASGI-2013-002	18.40	SPS	FE Tucumcari 115kV	Under Study (DISIS-2013-001)
ASGI-2013-003	18.40	SPS	FE Clovis 115kV	Under Study (DISIS-2013-001)
ASGI-2013-004	36.60	SUNCMKEC	Morris 115kV	Under Study (DISIS-2013-002)
ASGI-2013-005	1.65	SPS	FE Clovis 115kV	Under Study (DISIS-2013-002)
ASGI-2013-006	2.00	SPS	SP-Erskine 115kV	
ASGI-2014-001	2.50	SPS	SP-Erskine 115kV	Under Study (DISIS-2014-001)
GEN-2001-014	96.00	WFEC	Ft Supply 138kV	On-Line
GEN-2001-026	74.30	WFEC	Washita 138kV	On-Line
GEN-2001-033	180.00	SPS	San Juan Tap 230kV	On-Line at 120MW
GEN-2001-036	80.00	SPS	Norton 115kV	On-Line
GEN-2001-037	100.00	OKGE	FPL Moreland Tap 138kV	On-Line
GEN-2001-039A	105.00	SUNCMKEC	Shooting Star Tap 115kV	On-Line
GEN-2001-039M	100.00	SUNCMKEC	Central Plains Tap 115kV	On-Line
GEN-2002-004	200.00	WERE	Latham 345kV	On-Line at 150MW
GEN-2002-005	120.00	WFEC	Red Hills Tap 138kV	On-Line
GEN-2002-008	240.00	SPS	Hitchland 345kV	On-Line at 120MW
GEN-2002-009	80.00	SPS	Hansford 115kV	On-Line
GEN-2002-022	240.00	SPS	Bushland 230kV	On-Line
GEN-2002-023N	0.80	NPPD	Harmony 115kV	On-Line
GEN-2002-025A	150.00	SUNCMKEC	Spearville 230kV	On-Line
GEN-2003-004	100.00	WFEC	Washita 138kV	On-Line
GEN-2003-005	100.00	WFEC	Anadarko - Paradise (Blue Canyon) 138kV	On-Line
GEN-2003-006A	200.00	SUNCMKEC	Elm Creek 230kV	On-Line
GEN-2003-019	250.00	MIDW	Smoky Hills Tap 230kV	On-Line
GEN-2003-020	160.00	SPS	Martin 115kV	On-Line
GEN-2003-021N	75.00	NPPD	Ainsworth Wind Tap 115kV	On-Line
GEN-2003-022	120.00	AEPW	Weatherford 138kV	On-Line
GEN-2004-014	154.50	SUNCMKEC	Spearville 230kV	On-Line at 100MW
GEN-2004-020	27.00	AEPW	Weatherford 138kV	On-Line
GEN-2004-023	20.60	WFEC	Washita 138kV	On-Line
GEN-2004-023N	75.00	NPPD	Columbus Co 115kV	On-Line
GEN-2005-003	30.60	WFEC	Washita 138kV	On-Line
GEN-2005-008	120.00	OKGE	Woodward 138kV	On-Line
GEN-2005-012	250.00	SUNCMKEC	Ironwood 345kV	On-Line at 160MW
GEN-2005-013	201.00	WERE	Caney River 345kV	On-Line

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2006-002	101.00	AEPW	Sweetwater 230kV	On-Line
GEN-2006-018	170.00	SPS	TUCO Interchange 230kV	On-Line
GEN-2006-020N	42.00	NPPD	Bloomfield 115kV	On-Line
GEN-2006-020S	18.90	SPS	DWS Frisco 115kV	On-Line
GEN-2006-021	101.00	SUNCMKEC	Flat Ridge Tap 138kV	On-Line
GEN-2006-024S	19.80	WFEC	Buffalo Bear Tap 69kV	On-Line
GEN-2006-026	502.00	SPS	Hobbs 230kV & Hobbs 115kV	On-Line
GEN-2006-031	75.00	MIDW	Knoll 115kV	On-Line
GEN-2006-035	225.00	AEPW	Sweetwater 230kV	On-Line at 132MW
GEN-2006-037N1	75.00	NPPD	Broken Bow 115kV	On-Line
GEN-2006-038N005	80.00	NPPD	Broken Bow 115kV	On-Line
GEN-2006-038N019	80.00	NPPD	Petersburg North 115kV	On-Line
GEN-2006-043	99.00	AEPW	Sweetwater 230kV	On-Line
GEN-2006-044	370.00	SPS	Hitchland 345kV	On-Line at 120MW
GEN-2006-044N	40.50	NPPD	North Petersburg 115kV	On-Line
GEN-2006-046	131.00	OKGE	Dewey 138kV	On-Line
GEN-2007-011N08	81.00	NPPD	Bloomfield 115kV	On-Line
GEN-2007-021	201.00	OKGE	Tatonga 345kV	On-Line
GEN-2007-025	300.00	WERE	Viola 345kV	On-Line
GEN-2007-040	200.00	SUNCMKEC	Buckner 345kV	On-Line at 132MW
GEN-2007-043	200.00	OKGE	Minco 345kV	On-Line
GEN-2007-044	300.00	OKGE	Tatonga 345kV	On-Line at 199MW
GEN-2007-046	200.00	SPS	Hitchland 115kV	On Schedule for 2015
GEN-2007-050	170.00	OKGE	Woodward EHV 138kV	On-Line at 150MW
GEN-2007-052	150.00	WFEC	Anadarko 138kV	On-Line
GEN-2007-062	765.00	OKGE	Woodward EHV 345kV	On Schedule for 2016 and 2017
GEN-2008-003	101.00	OKGE	Woodward EHV 138kV	On-Line
GEN-2008-013	300.00	OKGE	Hunter 345kV	On-Line at 235MW
GEN-2008-018	250.00	SPS	Finney 345kV	On-Line
GEN-2008-021	42.00	WERE	Wolf Creek 345kV	On-Line
GEN-2008-022	300.00	SPS	Crossroads 345kV	On-Line
GEN-2008-023	150.00	AEPW	Hobart Junction 138kV	On-Line
GEN-2008-037	101.00	WFEC	Slick Hills 138kV	On-Line
GEN-2008-044	197.80	OKGE	Tatonga 345kV	On-Line
GEN-2008-047	300.00	OKGE	Beaver County 345kV	On-Line
GEN-2008-051	322.00	SPS	Potter County 345kV	On-Line at 161MW
GEN-2008-079	99.20	SUNCMKEC	Crooked Creek 115kV	On-Line
GEN-2008-086N02	201.00	NPPD	Meadow Grove 230kV	On-Line
GEN-2008-092	200.60	MIDW	Post Rock 230kV	On-Line
GEN-2008-098	100.80	WERE	Waverly 345kV	On-Line
GEN-2008-119O	60.00	OPPD	S1399 161kV	On-Line
GEN-2008-123N	89.70	NPPD	Tap Pauline - Hildreth (Rosemont) 115kV	On Schedule for 2016
GEN-2008-124	200.10	SUNCMKEC	Ironwood 345kV	On Schedule for 2016
GEN-2008-129	80.00	KCPL	Pleasant Hill 161kV	On-Line
GEN-2009-008	199.50	MIDW	South Hays 230kV	On-Line
GEN-2009-020	48.30	MIDW	Walnut Creek 69kV	On-Line
GEN-2009-025	59.80	OKGE	Nardins 69kV	On-Line
GEN-2009-040	73.80	WERE	Marshall 115kV	On Schedule for 2016
GEN-2010-001	300.00	OKGE	Beaver County 345kV	On-Line
GEN-2010-003	100.80	WERE	Waverly 345kV	On-Line

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2010-005	299.20	WERE	Viola 345kV	On-Line at 170MW
GEN-2010-006	205.00	SPS	Jones 230kV	On-Line
GEN-2010-009	165.60	SUNCMKEC	Buckner 345kV	On-Line
GEN-2010-011	29.70	OKGE	Tatonga 345kV	On-Line
GEN-2010-014	358.80	SPS	Hitchland 345kV	On Suspension
GEN-2010-036	4.60	WERE	6th Street 115kV	On-Line
GEN-2010-040	300.00	OKGE	Cimarron 345kV	On-Line
GEN-2010-041	10.50	OPPD	S1399 161kV	On Schedule for 2015
GEN-2010-045	197.80	SUNCMKEC	Buckner 345kV	On Schedule for 2017
GEN-2010-046	56.00	SPS	TUCO Interchange 230kV	On Schedule for 2016
GEN-2010-051	200.00	NPPD	Tap Hoskins - Twin Church (Dixon County) 230kV	On Suspension
GEN-2010-055	4.50	AEPW	Wekiwa 138kV	On-Line
GEN-2010-057	201.00	MIDW	Rice County 230kV	On-Line
GEN-2011-008	600.00	SUNCMKEC	Clark County 345kV	On Schedule for 2016
GEN-2011-010	100.80	OKGE	Minco 345kV	On-Line
GEN-2011-011	50.00	KCPL	Iatan 345kV	On-Line
GEN-2011-014	201.00	OKGE	Tap Hitchland - Woodward Dbl Ckt (GEN-2011-014 Tap) 345kV	On Schedule for 2016
GEN-2011-016	200.10	SUNCMKEC	Ironwood 345kV	On Schedule for 2017
GEN-2011-018	73.60	NPPD	Steele City 115kV	On-Line
GEN-2011-019	299.00	OKGE	Woodward 345kV	On Suspension
GEN-2011-020	299.00	OKGE	Woodward 345kV	On Suspension
GEN-2011-022	299.00	SPS	Hitchland 345kV	On Suspension
GEN-2011-025	80.00	SPS	Tap Floyd County - Crosby County 115kV	On Schedule for 2016
GEN-2011-027	120.00	NPPD	Tap Hoskins - Twin Church (Dixon County) 230kV	On Suspension
GEN-2011-037	7.00	WFEC	Blue Canyon 5 138kV	On-Line
GEN-2011-040	111.00	OKGE	Carter County 138kV	On-Line
GEN-2011-045	205.00	SPS	Jones 230kV	On-Line
GEN-2011-046	27.00	SPS	Lopez 115kV	On-Line
GEN-2011-048	175.00	SPS	Mustang 230kV	On-Line
GEN-2011-049	250.70	OKGE	Border 345kV	On Schedule for 2016
GEN-2011-050	109.80	AEPW	Santa Fe Tap 138kV	On Schedule for 2016
GEN-2011-051	104.40	OKGE	Tap Woodward - Tatonga 345kV (GEN-2011-051 Tap)	On Schedule for 2017
GEN-2011-054	300.00	OKGE	Cimarron 345kV	On-Line
GEN-2011-056	3.60	NPPD	Jeffrey 115kV	On-Line
GEN-2011-056A	3.60	NPPD	John 1 115kV	On-Line
GEN-2011-056B	4.50	NPPD	John 2 115kV	On-Line
GEN-2011-057	150.40	WERE	Creswell 138kV	On-Line
GEN-2012-001	61.20	SPS	Cirrus Tap 230kV	On-Line
GEN-2012-004	41.40	OKGE	Carter County 138kV	On-Line
GEN-2012-007	120.00	SUNCMKEC	Rubart 115kV	On-Line
GEN-2012-020	478.00	SPS	TUCO 230kV	On Schedule for 2016
GEN-2012-021	4.80	LES	Terry Bundy Generating Station 115kV	On-Line
GEN-2012-024	180.00	SUNCMKEC	Clark County 345kV	On Schedule for 2016
GEN-2012-027	136.00	AEPW	Shidler 138kV	On Suspension
GEN-2012-028	74.80	WFEC	Gotebo 69kV	On-Line
GEN-2012-032	300.00	OKGE	Open Sky 345kV	On-Line
GEN-2012-033	98.80	OKGE	Tap and Tie South 4th - Bunch Creek & Enid Tap - Fairmont (GEN-2012-033T) 138kV	On-Line
GEN-2012-034	7.00	SPS	Mustang 230kV	On-Line

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2012-035	7.00	SPS	Mustang 230kV	On-Line
GEN-2012-036	7.00	SPS	Mustang 230kV	On-Line
GEN-2012-037	203.00	SPS	TUCO 345kV	On-Line
GEN-2012-041	121.50	OKGE	Ranch Road 345kV	On-Line
GEN-2013-002	50.60	LES	Tap Sheldon - Folsom & Pleasant Hill (GEN-2013-002 Tap) 115kV CKT 2	On Schedule for 2016
GEN-2013-007	100.30	OKGE	Tap Prices Falls - Carter 138kV	On-Line
GEN-2013-008	1.20	NPPD	Steele City 115kV	On-Line
GEN-2013-011	30.00	AEPW	Turk 138kV	On-Line
GEN-2013-012	147.00	OKGE	Redbud 345kV	On-Line
GEN-2013-014	25.50	NPPD	Tap Pauline - Hildreth (Rosemont) 115kV	On Suspension
GEN-2013-016	203.00	SPS	TUCO 345kV	On Schedule for 2017
GEN-2013-019	73.60	LES	Tap Sheldon - Folsom & Pleasant Hill (GEN-2013-002 Tap) 115kV CKT 2	On Schedule for 2016
GEN-2013-022	25.00	SPS	Norton 115kV	On Schedule for 2016
GEN-2013-028	559.50	GRDA	Tap N Tulsa - GRDA 1 345kV	On Schedule for 2017
GEN-2013-029	300.00	OKGE	Renfrow 345kV	On Schedule for 2016 (150MW) and 2016 (150MW)
GEN-2013-030	300.00	OKGE	Beaver County 345kV	On Schedule for 2016 (200MW) and 2017 (100MW)
GEN-2013-032	204.00	NPPD	Antelope 115kV	On Schedule for 2017
GEN-2013-033	28.00	MIDW	Knoll 115kV	On Schedule for 2016
GEN-2014-001	200.60	WERE	Tap Wichita - Emporia Energy Center (GEN-2014-001 Tap) 345kV	On Suspension
GEN-2014-002	10.50	OKGE	Tatonga 345kV (GEN-2007-021 POI)	On Schedule for 2015
GEN-2014-003	15.80	OKGE	Tatonga 345kV (GEN-2007-044 POI)	On Schedule for 2015
GEN-2014-004	4.00	NPPD	Steele City 115kV (GEN-2011-018 POI)	On-Line
GEN-2014-005	5.70	OKGE	Minco 345kV (GEN-2011-010 POI)	On-Line
GEN-2014-012	225.00	SPS	Tap Hobbs Interchange - Andrews 230kV	On Schedule for 2018
GEN-2014-013	73.50	NPPD	Meadow Grove (GEN-2008-086N2 Sub) 230kV	On-Line
Gray County Wind (Montezuma)	110.00	SUNCMKEC	Gray County Tap 115kV	On-Line
Llano Estacado (White Deer)	80.00	SPS	Llano Wind 115kV	On-Line
NPPD Distributed (Broken Bow)	8.30	NPPD	Broken Bow 115kV	On-Line
NPPD Distributed (Buffalo County Solar)	10.00	NPPD	Kearney Northeast	On-Line
NPPD Distributed (Burt County Wind)	12.00	NPPD	Tekamah & Oakland 115kV	On-Line
NPPD Distributed (Burwell)	3.00	NPPD	Ord 115kV	On-Line
NPPD Distributed (Columbus Hydro)	45.00	NPPD	Columbus 115kV	On-Line
NPPD Distributed (North Platte - Lexington)	54.00	NPPD	Multiple: Jeffrey 115kV, John_1 115kV, John_2 115kV	On-Line
NPPD Distributed (Ord)	11.90	NPPD	Ord 115kV	On-Line
NPPD Distributed (Stuart)	2.10	NPPD	Ainsworth 115kV	On-Line
SPS Distributed (Dumas 19th St)	20.00	SPS	Dumas 19th Street 115kV	On-Line
SPS Distributed (Etter)	20.00	SPS	Etter 115kV	On-Line
SPS Distributed (Hopi)	10.00	SPS	Hopi 115kV	On-Line
SPS Distributed (Jal)	10.00	SPS	S Jal 115kV	On-Line
SPS Distributed (Lea Road)	10.00	SPS	Lea Road 115kV	On-Line
SPS Distributed (Monument)	10.00	SPS	Monument 115kV	On-Line
SPS Distributed (Moore E)	25.00	SPS	Moore East 115kV	On-Line
SPS Distributed (Ocotillo)	10.00	SPS	S_Jal 115kV	On-Line
SPS Distributed (Sherman)	20.00	SPS	Sherman 115kV	On-Line
SPS Distributed (Spearman)	10.00	SPS	Spearman 69kV	On-Line

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
SPS Distributed (TC-Texas County)	20.00	SPS	Texas County 115kV	On-Line
SPS Distributed (Yuma)	2.57	SPS	SP-Yuma 69kV	On-Line
Total:	23,405.0			

C: Study Groupings

See next page

C. Study Groups

GROUP 1: WOODWARD AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-014	96.00	WFEC	Ft Supply 138kV
GEN-2001-037	100.00	OKGE	FPL Moreland Tap 138kV
GEN-2005-008	120.00	OKGE	Woodward 138kV
GEN-2006-024S	19.80	WFEC	Buffalo Bear Tap 69kV
GEN-2006-046	131.00	OKGE	Dewey 138kV
GEN-2007-021	201.00	OKGE	Tatonga 345kV
GEN-2007-043	200.00	OKGE	Minco 345kV
GEN-2007-044	300.00	OKGE	Tatonga 345kV
GEN-2007-050	170.00	OKGE	Woodward EHV 138kV
GEN-2007-062	765.00	OKGE	Woodward EHV 345kV
GEN-2008-003	101.00	OKGE	Woodward EHV 138kV
GEN-2008-044	197.80	OKGE	Tatonga 345kV
GEN-2010-011	29.70	OKGE	Tatonga 345kV
GEN-2010-040	300.00	OKGE	Cimarron 345kV
GEN-2011-010	100.80	OKGE	Minco 345kV
GEN-2011-019	299.00	OKGE	Woodward 345kV
GEN-2011-020	299.00	OKGE	Woodward 345kV
GEN-2011-051	104.40	OKGE	Tap Woodward - Tatonga 345kV (GEN-2011-051 Tap)
GEN-2011-054	300.00	OKGE	Cimarron 345kV
GEN-2014-002	10.50	OKGE	Tatonga 345kV (GEN-2007-021 POI)
GEN-2014-003	15.80	OKGE	Tatonga 345kV (GEN-2007-044 POI)
GEN-2014-005	5.70	OKGE	Minco 345kV (GEN-2011-010 POI)
PRIOR QUEUED SUBTOTAL	3,866.50		
GEN-2014-020	100.00	AEPW	Tuttle 138kV
GEN-2014-056	250.00	OKGE	Minco 345kV
CURRENT CLUSTER SUBTOTAL	350.00		
AREA TOTAL	4,216.50		

GROUP 2: HITCHLAND AREA			
Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2011-002	20.00	SPS	Herring 115kV
GEN-2002-008	240.00	SPS	Hitchland 345kV
GEN-2002-009	80.00	SPS	Hansford 115kV
GEN-2003-020	160.00	SPS	Martin 115kV
GEN-2006-020S	18.90	SPS	DWS Frisco 115kV
GEN-2006-044	370.00	SPS	Hitchland 345kV
GEN-2007-046	200.00	SPS	Hitchland 115kV
GEN-2008-047	300.00	OKGE	Beaver County 345kV
GEN-2010-001	300.00	OKGE	Beaver County 345kV
GEN-2010-014	358.80	SPS	Hitchland 345kV
GEN-2011-014	201.00	OKGE	Tap Hitchland - Woodward Dbl Ckt (GEN-2011-014 Tap) 345kV
GEN-2011-022	299.00	SPS	Hitchland 345kV
GEN-2013-030	300.00	OKGE	Beaver County 345kV
SPS Distributed (Dumas 19th St)	20.00	SPS	Dumas 19th Street 115kV
SPS Distributed (Etter)	20.00	SPS	Etter 115kV
SPS Distributed (Moore E)	25.00	SPS	Moore East 115kV
SPS Distributed (Sherman)	20.00	SPS	Sherman 115kV
SPS Distributed (Spearman)	10.00	SPS	Spearman 69kV
SPS Distributed (TC-Texas County)	20.00	SPS	Texas County 115kV
PRIOR QUEUED SUBTOTAL	2,962.70		
GEN-2014-026	150.00	OKGE	Beaver County 345kV
CURRENT CLUSTER SUBTOTAL	150.00		
AREA TOTAL	3,112.70		

GROUP 3: SPEARVILLE AREA			
Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2012-006	22.50	SUNCMKEC	Tap Hugoton - Rolla 69kV
GEN-2001-039A	105.00	SUNCMKEC	Shooting Star Tap 115kV
GEN-2002-025A	150.00	SUNCMKEC	Spearville 230kV
GEN-2004-014	154.50	SUNCMKEC	Spearville 230kV
GEN-2005-012	250.00	SUNCMKEC	Ironwood 345kV
GEN-2006-021	101.00	SUNCMKEC	Flat Ridge Tap 138kV
GEN-2007-040	200.00	SUNCMKEC	Buckner 345kV
GEN-2008-018	250.00	SPS	Finney 345kV
GEN-2008-079	99.20	SUNCMKEC	Crooked Creek 115kV
GEN-2008-124	200.10	SUNCMKEC	Ironwood 345kV
GEN-2010-009	165.60	SUNCMKEC	Buckner 345kV
GEN-2010-045	197.80	SUNCMKEC	Buckner 345kV
GEN-2011-008	600.00	SUNCMKEC	Clark County 345kV
GEN-2011-016	200.10	SUNCMKEC	Ironwood 345kV
GEN-2012-007	120.00	SUNCMKEC	Rubart 115kV
GEN-2012-024	180.00	SUNCMKEC	Clark County 345kV
Gray County Wind (Montezuma)	110.00	SUNCMKEC	Gray County Tap 115kV
PRIOR QUEUED SUBTOTAL	3,105.80		
GEN-2013-010	99.00	SUNCMKEC	Tap Spearville - Post Rock (North of GEN-2011-017 Tap) 345kV
CURRENT CLUSTER SUBTOTAL	99.00		
AREA TOTAL	3,204.80		

GROUP 4: NORTHWEST KANSAS AREA			
Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2013-004	36.60	SUNCMKEC	Morris 115kV
GEN-2001-039M	100.00	SUNCMKEC	Central Plains Tap 115kV
GEN-2003-006A	200.00	SUNCMKEC	Elm Creek 230kV
GEN-2003-019	250.00	MIDW	Smoky Hills Tap 230kV
GEN-2006-031	75.00	MIDW	Knoll 115kV
GEN-2008-092	200.60	MIDW	Post Rock 230kV
GEN-2009-008	199.50	MIDW	South Hays 230kV
GEN-2009-020	48.30	MIDW	Walnut Creek 69kV
GEN-2010-057	201.00	MIDW	Rice County 230kV
GEN-2013-033	28.00	MIDW	Knoll 115kV
PRIOR QUEUED SUBTOTAL	1,339.00		
GEN-2014-025	2.40	MIDW	Walnut Creek 69kV
GEN-2014-041	120.80	SUNCMKEC	Arnold 115kV
CURRENT CLUSTER SUBTOTAL	123.20		
AREA TOTAL	1,462.20		

GROUP 5: AMARILLO AREA			
Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2013-001	11.50	SPS	PanTex South 115kV
GEN-2002-022	240.00	SPS	Bushland 230kV
GEN-2008-051	322.00	SPS	Potter County 345kV
Llano Estacado (White Deer)	80.00	SPS	Llano Wind 115kV
PRIOR QUEUED SUBTOTAL	653.50		
GEN-2014-040	320.40	SPS	Castro 115kV
CURRENT CLUSTER SUBTOTAL	320.40		
AREA TOTAL	973.90		

GROUP 6: SOUTH TEXAS PANHANDLE/NEW MEXICO AREA

Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2010-010	42.20	SPS	Lovington 115kV
ASGI-2010-020	30.00	SPS	Tap LE-Tatum - LE-Crossroads 69kV
ASGI-2010-021	15.00	SPS	Tap LE-Saunders Tap - LE-Anderson 69kV
ASGI-2011-001	27.30	SPS	Lovington 115kV
ASGI-2011-003	10.00	SPS	Hendricks 69kV
ASGI-2011-004	20.00	SPS	Pleasant Hill 69kV
ASGI-2012-002	18.15	SPS	FE-Clovis Interchange 115kV
ASGI-2013-002	18.40	SPS	FE Tucumcari 115kV
ASGI-2013-003	18.40	SPS	FE Clovis 115kV
ASGI-2013-005	1.65	SPS	FE Clovis 115kV
ASGI-2013-006	2.00	SPS	SP-Erskine 115kV
ASGI-2014-001	2.50	SPS	SP-Erskine 115kV
GEN-2001-033	180.00	SPS	San Juan Tap 230kV
GEN-2001-036	80.00	SPS	Norton 115kV
GEN-2006-018	170.00	SPS	TUCO Interchange 230kV
GEN-2006-026	502.00	SPS	Hobbs 230kV & Hobbs 115kV
GEN-2008-022	300.00	SPS	Crossroads 345kV
GEN-2010-006	205.00	SPS	Jones 230kV
GEN-2010-046	56.00	SPS	TUCO Interchange 230kV
GEN-2011-025	80.00	SPS	Tap Floyd County - Crosby County 115kV
GEN-2011-045	205.00	SPS	Jones 230kV
GEN-2011-046	27.00	SPS	Lopez 115kV
GEN-2011-048	175.00	SPS	Mustang 230kV
GEN-2012-001	61.20	SPS	Cirrus Tap 230kV
GEN-2012-020	478.00	SPS	TUCO 230kV
GEN-2012-034	7.00	SPS	Mustang 230kV
GEN-2012-035	7.00	SPS	Mustang 230kV
GEN-2012-036	7.00	SPS	Mustang 230kV
GEN-2012-037	203.00	SPS	TUCO 345kV
GEN-2013-016	203.00	SPS	TUCO 345kV
GEN-2013-022	25.00	SPS	Norton 115kV
GEN-2014-012	225.00	SPS	Tap Hobbs Interchange - Andrews 230kV
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 (Ocotillo)	10.00	SPS	S_Jal 115kV
SPS Distributed (Yuma)	2.57	SPS	SP-Yuma 69kV
PRIOR QUEUED SUBTOTAL	3,454.37		
ASGI-2014-002	49.60	SPS	Tap Tucumcari - Santa Rosa 115kV
ASGI-2014-005	10.00	SPS	Strata 69kV
ASGI-2014-008	10.00	SPS	South Loving 69kV
ASGI-2014-009	10.00	SPS	Wood Draw 115kV
ASGI-2014-010	10.00	SPS	Ochoa 115kV
ASGI-2014-012	10.00	SPS	Cooper Ranch 115kV
GEN-2013-027	150.00	SPS	Tap Tolk - Yoakum 230kV
GEN-2014-033	70.00	SPS	Chaves County 115kV
GEN-2014-034	70.00	SPS	Chaves County 115kV
GEN-2014-035	30.00	SPS	Chaves County 115kV

GEN-2014-047	40.00	SPS	Crossroads 345kV
CURRENT CLUSTER SUBTOTAL	459.60		
AREA TOTAL	3,913.97		

GROUP 7: SOUTHWEST OKLAHOMA AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-026	74.30	WFEC	Washita 138kV
GEN-2002-005	120.00	WFEC	Red Hills Tap 138kV
GEN-2003-004	100.00	WFEC	Washita 138kV
GEN-2003-005	100.00	WFEC	Anadarko - Paradise (Blue Canyon) 138kV
GEN-2003-022	120.00	AEPW	Weatherford 138kV
GEN-2004-020	27.00	AEPW	Weatherford 138kV
GEN-2004-023	20.60	WFEC	Washita 138kV
GEN-2005-003	30.60	WFEC	Washita 138kV
GEN-2006-002	101.00	AEPW	Sweetwater 230kV
GEN-2006-035	225.00	AEPW	Sweetwater 230kV
GEN-2006-043	99.00	AEPW	Sweetwater 230kV
GEN-2007-052	150.00	WFEC	Anadarko 138kV
GEN-2008-023	150.00	AEPW	Hobart Junction 138kV
GEN-2008-037	101.00	WFEC	Slick Hills 138kV
GEN-2011-037	7.00	WFEC	Blue Canyon 5 138kV
GEN-2011-049	250.70	OKGE	Border 345kV
GEN-2012-028	74.80	WFEC	Gotebo 69kV
PRIOR QUEUED SUBTOTAL	1,751.00		
AREA TOTAL	1,751.00		

GROUP 8: NORTH OKLAHOMA/SOUTH CENTRAL KANSAS AREA			
Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2010-006	150.00	AECI	Remington 138kV
GEN-2002-004	200.00	WERE	Latham 345kV
GEN-2005-013	201.00	WERE	Caney River 345kV
GEN-2007-025	300.00	WERE	Viola 345kV
GEN-2008-013	300.00	OKGE	Hunter 345kV
GEN-2008-021	42.00	WERE	Wolf Creek 345kV
GEN-2008-098	100.80	WERE	Waverly 345kV
GEN-2009-025	59.80	OKGE	Nardins 69kV
GEN-2010-003	100.80	WERE	Waverly 345kV
GEN-2010-005	299.20	WERE	Viola 345kV
GEN-2010-055	4.50	AEPW	Wekiwa 138kV
GEN-2011-057	150.40	WERE	Creswell 138kV
GEN-2012-027	136.00	AEPW	Shidler 138kV
GEN-2012-032	300.00	OKGE	Open Sky 345kV
GEN-2012-033	98.80	OKGE	Tap and Tie South 4th - Bunch Creek & Enid Tap - Fairmont (GEN-2012-033T) 138kV
GEN-2012-041	121.50	OKGE	Ranch Road 345kV
GEN-2013-012	147.00	OKGE	Redbud 345kV
GEN-2013-028	559.50	GRDA	Tap N Tulsa - GRDA 1 345kV
GEN-2013-029	300.00	OKGE	Renfrow 345kV
GEN-2014-001	200.60	WERE	Tap Wichita - Emporia Energy Center (GEN-2014-001 Tap) 345kV
PRIOR QUEUED SUBTOTAL	3,771.90		
ASGI-2014-014	56.40	GRDA	Ferguson 69kV
GEN-2014-028	35.00	EMDE	Riverton 161kV
GEN-2014-064	248.40	OKGE	Otter 138kV
CURRENT CLUSTER SUBTOTAL	339.80		
AREA TOTAL	4,111.70		

GROUP 9: NEBRASKA AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2002-023N	0.80	NPPD	Harmony 115kV
GEN-2003-021N	75.00	NPPD	Ainsworth Wind Tap 115kV
GEN-2004-023N	75.00	NPPD	Columbus Co 115kV
GEN-2006-020N	42.00	NPPD	Bloomfield 115kV
GEN-2006-037N1	75.00	NPPD	Broken Bow 115kV
GEN-2006-038N005	80.00	NPPD	Broken Bow 115kV
GEN-2006-038N019	80.00	NPPD	Petersburg North 115kV
GEN-2006-044N	40.50	NPPD	North Petersburg 115kV
GEN-2007-011N08	81.00	NPPD	Bloomfield 115kV
GEN-2008-086N02	201.00	NPPD	Meadow Grove 230kV
GEN-2008-1190	60.00	OPPD	S1399 161kV
GEN-2008-123N	89.70	NPPD	Tap Pauline - Hildreth (Rosemont) 115kV
GEN-2009-040	73.80	WERE	Marshall 115kV
GEN-2010-041	10.50	OPPD	S1399 161kV
GEN-2010-051	200.00	NPPD	Tap Hoskins - Twin Church (Dixon County) 230kV
GEN-2011-018	73.60	NPPD	Steele City 115kV
GEN-2011-027	120.00	NPPD	Tap Hoskins - Twin Church (Dixon County) 230kV
GEN-2011-056	3.60	NPPD	Jeffrey 115kV
GEN-2011-056A	3.60	NPPD	John 1 115kV
GEN-2011-056B	4.50	NPPD	John 2 115kV
GEN-2012-021	4.80	LES	Terry Bundy Generating Station 115kV
GEN-2013-002	50.60	LES	Tap Sheldon - Folsom & Pleasant Hill (GEN-2013-002 Tap) 115kV CKT 2
GEN-2013-008	1.20	NPPD	Steele City 115kV
GEN-2013-014	25.50	NPPD	Tap Pauline - Hildreth (Rosemont) 115kV
GEN-2013-019	73.60	LES	Tap Sheldon - Folsom & Pleasant Hill (GEN-2013-002 Tap) 115kV CKT 2
GEN-2013-032	204.00	NPPD	Antelope 115kV
GEN-2014-004	4.00	NPPD	Steele City 115kV (GEN-2011-018 POI)
GEN-2014-013	73.50	NPPD	Meadow Grove (GEN-2008-086N2 Sub) 230kV
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)	12.00	NPPD	Tekamah & Oakland 115kV
NPPD Distributed (Burwell)	3.00	NPPD	Ord 115kV
NPPD Distributed (Columbus Hydro)	45.00	NPPD	Columbus 115kV
NPPD Distributed (North Platte - Lexington)	54.00	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
PRIOR QUEUED SUBTOTAL	1,973.10		
GEN-2014-031	35.80	NPPD	Meadow Grove 230kV
GEN-2014-032	10.20	NPPD	Meadow Grove 230kV
GEN-2014-039	73.40	NPPD	Friend 115kV
CURRENT CLUSTER SUBTOTAL	119.40		
AREA TOTAL	2,092.50		

GROUP 10: SOUTHEAST OKLAHOMA/NORTHEAST TEXAS AREA			
Request	Capacity	Area	Proposed Point of Interconnection
AREA TOTAL	0.00		

GROUP 12: NORTHWEST ARKANSAS AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2013-011	30.00	AEPW	Turk 138kV
PRIOR QUEUED SUBTOTAL	30.00		
AREA TOTAL	30.00		

GROUP 13: NORTHWEST MISSOURI AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2008-129	80.00	KCPL	Pleasant Hill 161kV
GEN-2010-036	4.60	WERE	6th Street 115kV
GEN-2011-011	50.00	KCPL	Iatan 345kV
PRIOR QUEUED SUBTOTAL	134.60		
GEN-2014-021	300.00	KCPL	Tap Nebraska City - Mullin Creek 345kV
CURRENT CLUSTER SUBTOTAL	300.00		
AREA TOTAL	434.60		

GROUP 14: SOUTH CENTRAL OKLAHOMA AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2011-040	111.00	OKGE	Carter County 138kV
GEN-2011-050	109.80	AEPW	Santa Fe Tap 138kV
GEN-2012-004	41.40	OKGE	Carter County 138kV
GEN-2013-007	100.30	OKGE	Tap Prices Falls - Carter 138kV
PRIOR QUEUED SUBTOTAL	362.50		
GEN-2014-057	250.00	AEPW	Tap Lawton - Sunnyside (Terry Road) 345kV
CURRENT CLUSTER SUBTOTAL	250.00		
AREA TOTAL	612.50		

CLUSTER TOTAL (CURRENT STUDY)	1,521.6	MW
PQ TOTAL (PRIOR QUEUED)	20,251.3	MW
	21,772.9	MW

D: Proposed Point of Interconnection One Line Diagrams

See next page

*Please note for Affected System Generation Interconnection Requests (ASGI) interconnection cost estimate could include distribution system or third party system network upgrades and costs estimates.

ASGI-2014-002
See Interconnection Facilities Study

ASGI-2014-005
See Interconnection Facilities Study

ASGI-2014-008
See Interconnection Facilities Study

ASGI-2014-009
See Interconnection Facilities Study

ASGI-2014-010
See Interconnection Facilities Study

ASGI-2014-012
See Interconnection Facilities Study

GEN-2013-027
See Interconnection Facilities Study

GEN-2014-033
See Interconnection Facilities Study

GEN-2014-034
See Interconnection Facilities Study

GEN-2014-035
See Interconnection Facilities Study

GEN-2014-047
See Interconnection Facilities Study

E: Cost Allocation per Interconnection Request (Including Prior Queued Upgrades)

Important Note:

****WITHDRAWAL OF HIGHER QUEUED PROJECTS WILL CAUSE A RESTUDY
AND MAY RESULT IN HIGHER INTERCONNECTION COSTS****

This section shows each Generation Interconnection Request Customer, their current study impacted Network Upgrades, and the previously allocated upgrades upon which they rely to accommodate their interconnection to the transmission system.

The costs associated with the current study Network Upgrades are allocated to the Customers shown in this report.

In addition should a higher queued request, defined as one this study includes as a prior queued request, withdraw, the Network Upgrades assigned to the withdrawn request may be reallocated to the remaining requests that have an impact on the Network Upgrade under a restudy. Also, should an Interconnection Request choose to go into service prior to the operation date of any necessary Network Upgrades, the costs associated with those upgrades may be reallocated to the impacted Interconnection Request. The actual costs allocated to each Generation Interconnection Request Customer will be determined at the time of a restudy.

The required interconnection costs listed 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 through SPP's Open Access Same Time Information System (OASIS) as required by Attachment Z1 of the SPP OATT. In addition, costs associated with a short circuit analysis will be allocated should the Interconnection Request Customer choose to execute a Facility Study Agreement.

There may be additional costs allocated to each Customer. See Appendix F for more details.

Appendix E. Cost Allocation Per Request

(Including Previously Allocated Network Upgrades*)

Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
ASGI-2014-002			
ASGI-2014-002 Interconnection Costs See One-Line Diagram.	Current Study	\$2,633,904	\$2,633,904
Norton - Pleasant Hill 230kV CKT 1 Build approximately 60 miles of new 230kV line. Modify Norton substation to add 230kV bus and autotransformer.	Current Study	\$49,592,501	\$49,592,501
Tolk - Plant X 230kV CKT 1 & 2 Rebuild circuit 1 and 2 between Tolk - Plant X 230kV to 1200 amps each.	Current Study	\$1,096,300	\$9,921,693
TUCO 345/230/13.2kV CKT 1 Replace existing TUCO 345/230/13.2kV Transformer circuit #1 with 700MVA.	Current Study	\$396,707	\$3,347,036
China Draw 115kV Reactive Power Support Build China Draw SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$20,064,549
Potash Junction 230/115 kV Ckt 1 Per HPILs SPP-NTC-200282 (Total Project E&C Cost Shown)	Previously Allocated		\$3,508,346
Potash Junction 230kV Reactive Power Support Build Potash Junction 100Mvar Capacitor bank per 2015 ITPNT.	Previously Allocated		\$6,465,875
Road Runner 115kV Reactive Power Support Build Road Runner SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$18,349,020
	Current Study Total	\$53,719,413	
ASGI-2014-005			
ASGI-2014-005 Interconnection Costs See One-Line Diagram.	Current Study	\$16,000	\$16,000
Tolk - Plant X 230kV CKT 1 & 2 Rebuild circuit 1 and 2 between Tolk - Plant X 230kV to 1200 amps each.	Current Study	\$162,859	\$9,921,693
Amoco Wasson - Oxy Tap 230kV CKT 1 Replace line traps at both terminals	Previously Allocated		\$200,000
China Draw 115kV Reactive Power Support Build China Draw SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$20,064,549
Kiowa - North Loving - China Draw 345/115kV Projects Per HPILs SPP-NTC-200283 (Total Project E&C Cost Shown)	Previously Allocated		\$62,619,690

* 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
Livingston Ridge - Sage Brush - Lagarto - Cardinal 115kV CKT 1 Per HPILs SPP-NTC-200283 (Total Project E&C Cost Shown)	Previously Allocated		\$37,316,546
Potash Junction 230kV Reactive Power Support Build Potash Junction 100Mvar Capacitor bank per 2015 ITPNT.	Previously Allocated		\$6,465,875
Road Runner 115kV Reactive Power Support Build Road Runner SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$18,349,020
	Current Study Total		\$178,859

ASGI-2014-008

ASGI-2014-008 Interconnection Costs See One-Line Diagram.	Current Study	\$16,000	\$16,000
Tolk - Plant X 230kV CKT 1 & 2 Rebuild circuit 1 and 2 between Tolk - Plant X 230kV to 1200 amps each.	Current Study	\$170,321	\$9,921,693
Amoco Wasson - Oxy Tap 230kV CKT 1 Replace line traps at both terminals	Previously Allocated		\$200,000
China Draw 115kV Reactive Power Support Build China Draw SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$20,064,549
Livingston Ridge - Sage Brush - Lagarto - Cardinal 115kV CKT 1 Per HPILs SPP-NTC-200283 (Total Project E&C Cost Shown)	Previously Allocated		\$37,316,546
Potash Junction 230kV Reactive Power Support Build Potash Junction 100Mvar Capacitor bank per 2015 ITPNT.	Previously Allocated		\$6,465,875
Road Runner 115kV Reactive Power Support Build Road Runner SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$18,349,020
	Current Study Total		\$186,321

ASGI-2014-009

ASGI-2014-009 Interconnection Costs See One-Line Diagram.	Current Study	\$16,000	\$16,000
Tolk - Plant X 230kV CKT 1 & 2 Rebuild circuit 1 and 2 between Tolk - Plant X 230kV to 1200 amps each.	Current Study	\$159,022	\$9,921,693
Amoco Wasson - Oxy Tap 230kV CKT 1 Replace line traps at both terminals	Previously Allocated		\$200,000
China Draw 115kV Reactive Power Support Build China Draw SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$20,064,549

* 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
Potash Junction 230kV Reactive Power Support Build Potash Junction 100Mvar Capacitor bank per 2015 ITPNT.	Previously Allocated		\$6,465,875
Road Runner 115kV Reactive Power Support Build Road Runner SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$18,349,020
	Current Study Total	\$175,022	

ASGI-2014-010

ASGI-2014-010 Interconnection Costs See One-Line Diagram.	Current Study	\$16,000	\$16,000
Tolk - Plant X 230kV CKT 1 & 2 Rebuild circuit 1 and 2 betweek Tolk - Plant X 230kV to 1200 amps each.	Current Study	\$155,376	\$9,921,693
Amoco Wasson - Oxy Tap 230kV CKT 1 Replace line traps at both terminals	Previously Allocated		\$200,000
China Draw 115kV Reactive Power Support Build China Draw SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$20,064,549
Potash Junction 230kV Reactive Power Support Build Potash Junction 100Mvar Capacitor bank per 2015 ITPNT.	Previously Allocated		\$6,465,875
Road Runner 115kV Reactive Power Support Build Road Runner SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$18,349,020
	Current Study Total	\$171,376	

ASGI-2014-012

ASGI-2014-012 Interconnection Costs See One-Line Diagram.	Current Study	\$16,000	\$16,000
Tolk - Plant X 230kV CKT 1 & 2 Rebuild circuit 1 and 2 betweek Tolk - Plant X 230kV to 1200 amps each.	Current Study	\$144,893	\$9,921,693
Amoco Wasson - Oxy Tap 230kV CKT 1 Replace line traps at both terminals	Previously Allocated		\$200,000
China Draw 115kV Reactive Power Support Build China Draw SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$20,064,549
Potash Junction 230kV Reactive Power Support Build Potash Junction 100Mvar Capacitor bank per 2015 ITPNT.	Previously Allocated		\$6,465,875
Road Runner 115kV Reactive Power Support Build Road Runner SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$18,349,020

* 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
		Current Study Total	\$160,893
ASGI-2014-014			
ASGI-2014-014 Interconnection Costs See One-Line Diagram.	Current Study	\$134,164	\$134,164
		Current Study Total	\$134,164
GEN-2013-010			
GEN-2013-010 Interconnection Costs See One-Line Diagram.	Current Study	\$11,021,522	\$11,021,522
Bucker - Spearville 345V CKT 1 Replace Terminal equipment	Previously Allocated		\$1,480,238
		Current Study Total	\$11,021,522
GEN-2013-027			
GEN-2013-027 Interconnection Costs See One-Line Diagram.	Current Study	\$6,004,592	\$6,004,592
Tolk - Plant X 230kV CKT 1 & 2 Rebuild circuit 1 and 2 between Tolk - Plant X 230kV to 1200 amps each.	Current Study	\$3,701,930	\$9,921,693
TUCO 345/230/13.2kV CKT 1 Replace existing TUCO 345/230/13.2kV Transformer circuit #1 with 700MVA.	Current Study	\$1,227,920	\$3,347,036
China Draw 115kV Reactive Power Support Build China Draw SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$20,064,549
Potash Junction 230/115 kV Ckt 1 Per HPILs SPP-NTC-200282 (Total Project E&C Cost Shown)	Previously Allocated		\$3,508,346
Road Runner 115kV Reactive Power Support Build Road Runner SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$18,349,020
		Current Study Total	\$10,934,442
GEN-2014-020			
GEN-2014-020 Interconnection Costs See One-Line Diagram.	Current Study	\$7,684,803	\$7,684,803
		Current Study Total	\$7,684,803
GEN-2014-021			
GEN-2014-021 Interconnection Costs See One-Line Diagram.	Current Study	\$18,384,455	\$18,384,455

* 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
Nashua 345/161/13.8KV Autotransformer CKT 1 Balanced Portfolio: Nashua/161/13.8 Autotransformer 345kV CKT 1 (Total Project E&C Cost Shown).	In-Service		\$4,230,000
Nebraska City - Sibley 345kV CKT 1 Priority Project: Nebraska City - Mullin Creek - Sibley 345kV circuit 1 per SPP-NTC-20097 and SPP-NTC-20098 (Total Project E&C Cost Shown).	Previously Allocated		\$336,433,874
	Current Study Total	\$18,384,455	

GEN-2014-025

GEN-2014-025 Interconnection Costs See One-Line Diagram.	Current Study	\$184,473	\$184,473
Iatan - Nashua 345KV CKT 1 Balanced Portfolio: Iatan - Nashua 345kV CKT 1 (Total Project E&C Cost Shown).	In-Service		\$60,569,180
Nashua 345/161/13.8KV Autotransformer CKT 1 Balanced Portfolio: Nashua/161/13.8 Autotransformer 345kV CKT 1 (Total Project E&C Cost Shown).	In-Service		\$4,230,000
	Current Study Total	\$184,473	

GEN-2014-026

Beaver County 345kV Reactive Power Support Install 75Mvar SVC at Beaver County Substation.	Current Study	\$21,823,556	\$21,823,556
GEN-2014-026 Interconnection Costs See One-Line Diagram.	Current Study	\$120,000	\$120,000
Woodward EHV Phase Shifting Transformer CKT 1 Install one phase shifting transformer at Woodward	Previously Allocated		\$7,200,000
	Current Study Total	\$21,943,556	

GEN-2014-028

GEN-2014-028 Interconnection Costs See One-Line Diagram.	Current Study	\$0	\$0
	Current Study Total	\$0	

GEN-2014-031

GEN-2014-031 Interconnection Costs See One-Line Diagram.	Current Study	\$100,000	\$100,000
Battle Creek-County Line 115kV CKT 1 Rebuild approximately 11 miles of 115kV from Battle Creek to County Line.	Previously Allocated		\$4,000,000
County Line-Neligh East 115kV CKT 1 Rebuild approximately 12 miles of 115kV from County Line to Neligh East.	Previously Allocated		\$8,050,000

* 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
Hoskins - Dixon County - Twin Church 230kV Rerate per NPPD Facility Study	Previously Allocated		\$500,000
Hoskins - Neligh 345/115kV Projects Per SPP 2014 ITP NT and NTC 200253 for 6/1/2016 in-service.	Previously Allocated		\$98,697,720
Twin Church - Dixon County 230kV Increase conductor clearances to accommodate 320MVA facility rating	Previously Allocated		\$100,000
	Current Study Total	\$100,000	

GEN-2014-032

GEN-2014-032 Interconnection Costs See One-Line Diagram.	Current Study	\$0	\$0
Battle Creek-County Line 115kV CKT 1 Rebuild approximately 11 miles of 115kV from Battle Creek to County Line.	Previously Allocated		\$4,000,000
County Line-Neligh East 115kV CKT 1 Rebuild approximately 12 miles of 115kV from County Line to Neligh East.	Previously Allocated		\$8,050,000
Hoskins - Dixon County - Twin Church 230kV Rerate per NPPD Facility Study	Previously Allocated		\$500,000
Hoskins - Neligh 345/115kV Projects Per SPP 2014 ITP NT and NTC 200253 for 6/1/2016 in-service.	Previously Allocated		\$98,697,720
Twin Church - Dixon County 230kV Increase conductor clearances to accommodate 320MVA facility rating	Previously Allocated		\$100,000
	Current Study Total	\$0	

GEN-2014-033

GEN-2014-033 Interconnection Costs See One-Line Diagram.	Current Study	\$2,090,343	\$2,090,343
Tolk - Plant X 230kV CKT 1 & 2 Rebuild circuit 1 and 2 between Tolk - Plant X 230kV to 1200 amps each.	Current Study	\$1,382,781	\$9,921,693
TUCO 345/230/13.2kV CKT 1 Replace existing TUCO 345/230/13.2kV Transformer circuit #1 with 700MVA.	Current Study	\$574,565	\$3,347,036
Amoco Wasson - Oxy Tap 230kV CKT 1 Replace line traps at both terminals	Previously Allocated		\$200,000
China Draw 115kV Reactive Power Support Build China Draw SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$20,064,549

* 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
Potash Junction 230kV Reactive Power Support Build Potash Junction 100Mvar Capacitor bank per 2015 ITPNT.	Previously Allocated		\$6,465,875
Road Runner 115kV Reactive Power Support Build Road Runner SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$18,349,020
	Current Study Total	\$4,047,689	

GEN-2014-034

GEN-2014-034 Interconnection Costs See One-Line Diagram.	Current Study	\$1,257,430	\$1,257,430
Tolk - Plant X 230kV CKT 1 & 2 Rebuild circuit 1 and 2 between Tolk - Plant X 230kV to 1200 amps each.	Current Study	\$1,382,781	\$9,921,693
TUCO 345/230/13.2kV CKT 1 Replace existing TUCO 345/230/13.2kV Transformer circuit #1 with 700MVA.	Current Study	\$574,565	\$3,347,036
Amoco Wasson - Oxy Tap 230kV CKT 1 Replace line traps at both terminals	Previously Allocated		\$200,000
China Draw 115kV Reactive Power Support Build China Draw SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$20,064,549
Potash Junction 230kV Reactive Power Support Build Potash Junction 100Mvar Capacitor bank per 2015 ITPNT.	Previously Allocated		\$6,465,875
Road Runner 115kV Reactive Power Support Build Road Runner SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$18,349,020
	Current Study Total	\$3,214,776	

GEN-2014-035

GEN-2014-035 Interconnection Costs See One-Line Diagram.	Current Study	\$0	\$0
Tolk - Plant X 230kV CKT 1 & 2 Rebuild circuit 1 and 2 between Tolk - Plant X 230kV to 1200 amps each.	Current Study	\$592,620	\$9,921,693
TUCO 345/230/13.2kV CKT 1 Replace existing TUCO 345/230/13.2kV Transformer circuit #1 with 700MVA.	Current Study	\$246,242	\$3,347,036
Amoco Wasson - Oxy Tap 230kV CKT 1 Replace line traps at both terminals	Previously Allocated		\$200,000
China Draw 115kV Reactive Power Support Build China Draw SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$20,064,549

* 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
Potash Junction 230kV Reactive Power Support Build Potash Junction 100Mvar Capacitor bank per 2015 ITPNT.	Previously Allocated		\$6,465,875
Road Runner 115kV Reactive Power Support Build Road Runner SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$18,349,020
	Current Study Total	\$838,863	
GEN-2014-039			
GEN-2014-039 Interconnection Costs See One-Line Diagram.	Current Study	\$4,900,000	\$4,900,000
Battle Creek-County Line 115kV CKT 1 Rebuild approximately 11 miles of 115kV from Battle Creek to County Line.	Previously Allocated		\$4,000,000
County Line-Neligh East 115kV CKT 1 Rebuild approximately 12 miles of 115kV from County Line to Neligh East.	Previously Allocated		\$8,050,000
Hoskins - Neligh 345/115kV Projects Per SPP 2014 ITP NT and NTC 200253 for 6/1/2016 in-service.	Previously Allocated		\$98,697,720
Twin Church - Dixon County 230kV Increase conductor clearances to accommodate 320MVA facility rating	Previously Allocated		\$100,000
	Current Study Total	\$4,900,000	
GEN-2014-040			
GEN-2014-040 Interconnection Costs See One-Line Diagram.	Current Study	\$1,510,017	\$1,510,017
	Current Study Total	\$1,510,017	
GEN-2014-041			
Arnold - Ransom 115kV CKT 1 Replace terminal equipment and relay panels at Ransom Substation	Current Study	\$268,321	\$268,321
GEN-2014-041 Interconnection Costs See One-Line Diagram.	Current Study	\$5,111,551	\$5,111,551
Iatan - Nashua 345KV CKT 1 Balanced Portfolio: Iatan - Nashua 345kV CKT 1 (Total Project E&C Cost Shown).	In-Service		\$60,569,180
Nashua 345/161/13.8KV Autotransformer CKT 1 Balanced Portfolio: Nashua/161/13.8 Autotransformer 345kV CKT 1 (Total Project E&C Cost Shown).	In-Service		\$4,230,000
Ellsworth - Mullergren 115kV CKT 1 Per SPP 2012 NT and SPP-NTC-200173 for 6/1/2015 in-service(Total Project E&C Cost Shown).	Not Active		\$19,459,597

* 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
Bucker - Spearville 345V CKT 1 Replace Terminal equipment	Previously Allocated		\$1,480,238
	Current Study Total	\$5,379,872	
GEN-2014-047			
GEN-2014-047 Interconnection Costs See One-Line Diagram.	Current Study	\$3,164,380	\$3,164,380
Tolk - Plant X 230kV CKT 1 & 2 Rebuild circuit 1 and 2 betweek Tolk - Plant X 230kV to 1200 amps each.	Current Study	\$972,809	\$9,921,693
TUCO 345/230/13.2kV CKT 1 Replace existing TUCO 345/230/13.2kV Transformer circuit #1 with 700MVA.	Current Study	\$327,037	\$3,347,036
China Draw 115kV Reactive Power Support Build China Draw SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$20,064,549
Potash Junction 230/115 kV Ckt 1 Per HPILs SPP-NTC-200282 (Total Project E&C Cost Shown)	Previously Allocated		\$3,508,346
Potash Junction 230kV Reactive Power Support Build Potash Junction 100Mvar Capacitor bank per 2015 ITPNT.	Previously Allocated		\$6,465,875
Road Runner 115kV Reactive Power Support Build Road Runner SVC (+200Mvar/-50Mvar) per 2015 ITPNT SPP-NTC-200324.	Previously Allocated		\$18,349,020
	Current Study Total	\$4,464,225	
GEN-2014-056			
GEN-2014-056 Interconnection Costs See One-Line Diagram.	Current Study	\$40,000	\$40,000
	Current Study Total	\$40,000	
GEN-2014-057			
GEN-2014-057 Interconnection Costs See One-Line Diagram.	Current Study	\$20,120,000	\$20,120,000
	Current Study Total	\$20,120,000	
GEN-2014-064			
GEN-2014-064 Interconnection Costs See One-Line Diagram.	Current Study	\$3,217,651	\$3,217,651
Fairfax 138/69kV CKT 1 Per AECl Affected System Study for DISIS-2012-002	Previously Allocated		\$2,200,000

* 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
Remington - Fairfax 138KV CKT 1 Increase conductor clearance	Previously Allocated		\$400,000
	Current Study Total	\$3,217,651	
TOTAL CURRENT STUDY COSTS:		\$172,712,392	

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

F: Cost Allocation per Proposed Study Network Upgrade

Important Note:

****WITHDRAWAL OF HIGHER QUEUED PROJECTS WILL CAUSE A RESTUDY
AND MAY RESULT IN HIGHER INTERCONNECTION COSTS****

This section shows each Direct Assigned Facility and Network Upgrade and the Generation Interconnection Request Customer(s) which have an impact in this study assuming all higher queued projects remain in the queue and achieve commercial operation.

The required interconnection costs listed 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 through SPP's Open Access Same Time Information System (OASIS) as required by Attachment Z1 of the SPP OATT. In addition, costs associated with a short circuit analysis will be allocated should the Interconnection Request Customer choose to execute a Facility Study Agreement.

There may be additional costs allocated to each Customer. See Appendix E for more details.

Appendix F. Cost Allocation by Upgrade

Arnold - Ransom 115kV CKT 1		\$268,321
Replace terminal equipment and relay panels at Ransom Substation		
	GEN-2014-041	\$268,321
	Total Allocated Costs	\$268,321
ASGI-2014-002 Interconnection Costs		\$2,633,904
See One-Line Diagram.		
	ASGI-2014-002	\$2,633,904
	Total Allocated Costs	\$2,633,904
ASGI-2014-005 Interconnection Costs		\$16,000
See One-Line Diagram.		
	ASGI-2014-005	\$16,000
	Total Allocated Costs	\$16,000
ASGI-2014-008 Interconnection Costs		\$16,000
See One-Line Diagram.		
	ASGI-2014-008	\$16,000
	Total Allocated Costs	\$16,000
ASGI-2014-009 Interconnection Costs		\$16,000
See One-Line Diagram.		
	ASGI-2014-009	\$16,000
	Total Allocated Costs	\$16,000
ASGI-2014-010 Interconnection Costs		\$16,000
See One-Line Diagram.		
	ASGI-2014-010	\$16,000
	Total Allocated Costs	\$16,000
ASGI-2014-012 Interconnection Costs		\$16,000
See One-Line Diagram.		
	ASGI-2014-012	\$16,000
	Total Allocated Costs	\$16,000

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

ASGI-2014-014 Interconnection Costs		\$134,164
See One-Line Diagram.		
	ASGI-2014-014	\$134,164
	Total Allocated Costs	\$134,164
<hr/>		
Beaver County 345kV Reactive Power Support		\$21,823,556
Install 75Mvar SVC at Beaver County Substation.		
	GEN-2014-026	\$21,823,556
	Total Allocated Costs	\$21,823,556
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GEN-2013-010 Interconnection Costs		\$11,021,522
See One-Line Diagram.		
	GEN-2013-010	\$11,021,522
	Total Allocated Costs	\$11,021,522
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GEN-2013-027 Interconnection Costs		\$6,004,592
See One-Line Diagram.		
	GEN-2013-027	\$6,004,592
	Total Allocated Costs	\$6,004,592
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GEN-2014-020 Interconnection Costs		\$7,684,803
See One-Line Diagram.		
	GEN-2014-020	\$7,684,803
	Total Allocated Costs	\$7,684,803
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GEN-2014-021 Interconnection Costs		\$18,384,455
See One-Line Diagram.		
	GEN-2014-021	\$18,384,455
	Total Allocated Costs	\$18,384,455
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GEN-2014-025 Interconnection Costs		\$184,473
See One-Line Diagram.		
	GEN-2014-025	\$184,473
	Total Allocated Costs	\$184,473
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GEN-2014-026 Interconnection Costs		\$120,000
See One-Line Diagram.		
	GEN-2014-026	\$120,000
	Total Allocated Costs	\$120,000

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

GEN-2014-028 Interconnection Costs		\$0
See One-Line Diagram.		
	GEN-2014-028	\$0
	Total Allocated Costs	\$0
GEN-2014-031 Interconnection Costs		\$100,000
See One-Line Diagram.		
	GEN-2014-031	\$100,000
	Total Allocated Costs	\$100,000
GEN-2014-032 Interconnection Costs		\$0
See One-Line Diagram.		
	GEN-2014-032	\$0
	Total Allocated Costs	\$0
GEN-2014-033 Interconnection Costs		\$2,090,343
See One-Line Diagram.		
	GEN-2014-033	\$2,090,343
	Total Allocated Costs	\$2,090,343
GEN-2014-034 Interconnection Costs		\$1,257,430
See One-Line Diagram.		
	GEN-2014-034	\$1,257,430
	Total Allocated Costs	\$1,257,430
GEN-2014-035 Interconnection Costs		\$0
See One-Line Diagram.		
	GEN-2014-035	\$0
	Total Allocated Costs	\$0
GEN-2014-039 Interconnection Costs		\$4,900,000
See One-Line Diagram.		
	GEN-2014-039	\$4,900,000
	Total Allocated Costs	\$4,900,000
GEN-2014-040 Interconnection Costs		\$1,510,017
See One-Line Diagram.		
	GEN-2014-040	\$1,510,017
	Total Allocated Costs	\$1,510,017

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

GEN-2014-041 Interconnection Costs		\$5,111,551
See One-Line Diagram.		
	GEN-2014-041	\$5,111,551
	Total Allocated Costs	\$5,111,551
GEN-2014-047 Interconnection Costs		\$3,164,380
See One-Line Diagram.		
	GEN-2014-047	\$3,164,380
	Total Allocated Costs	\$3,164,380
GEN-2014-056 Interconnection Costs		\$40,000
See One-Line Diagram.		
	GEN-2014-056	\$40,000
	Total Allocated Costs	\$40,000
GEN-2014-057 Interconnection Costs		\$20,120,000
See One-Line Diagram.		
	GEN-2014-057	\$20,120,000
	Total Allocated Costs	\$20,120,000
GEN-2014-064 Interconnection Costs		\$3,217,651
See One-Line Diagram.		
	GEN-2014-064	\$3,217,651
	Total Allocated Costs	\$3,217,651
Norton - Pleasant Hill 230kV CKT 1		\$49,592,501
Build approximately 60 miles of new 230kV line. Modify Norton substation to add 230kV bus and autotransformer.		
	ASGI-2014-002	\$49,592,501
	Total Allocated Costs	\$49,592,501

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

Tolk - Plant X 230kV CKT 1 & 2**\$9,921,693**

Rebuild circuit 1 and 2 between Tolk - Plant X 230kV to 1200 amps each.

ASGI-2014-002	\$1,096,300
ASGI-2014-005	\$162,859
ASGI-2014-008	\$170,321
ASGI-2014-009	\$159,022
ASGI-2014-010	\$155,376
ASGI-2014-012	\$144,893
GEN-2013-027	\$3,701,930
GEN-2014-033	\$1,382,781
GEN-2014-034	\$1,382,781
GEN-2014-035	\$592,620
GEN-2014-047	\$972,809
Total Allocated Costs	\$9,921,693

TUCO 345/230/13.2kV CKT 1**\$3,347,036**

Replace existing TUCO 345/230/13.2kV Transformer circuit #1 with 700MVA.

ASGI-2014-002	\$396,707
GEN-2013-027	\$1,227,920
GEN-2014-033	\$574,565
GEN-2014-034	\$574,565
GEN-2014-035	\$246,242
GEN-2014-047	\$327,037
Total Allocated Costs	\$3,347,036

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

G: Power Flow Analysis (Constraints Used For Mitigation)

See next page.

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	20SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.30119	109.8316	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	20SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.30119	109.8316	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	17SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.34919	106.3919	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	17SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.34919	106.3919	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	20WP	G14_035	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.19319	109.3673	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20WP	G14_035	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.19319	108.4517	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	2	20SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.29846	109.0354	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.29846	109.0354	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	17SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.34633	105.6664	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	17SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.34633	105.6664	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.30122	109.8364	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	2	20SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.30122	109.8364	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	2	17SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.34956	106.4247	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	2	17SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.34956	106.4247	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	20SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.39098	109.0305	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.39098	109.0305	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	17SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.42523	105.6337	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	17SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.42523	105.6337	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.39451	109.8316	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	20SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.39451	109.8316	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	17SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.42906	106.3919	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	17SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.42906	106.3919	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	20WP	G14_047	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.23625	109.3673	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20WP	G14_047	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.23625	108.4517	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	G14_047	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.21099	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	G14_047	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.21099	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	G14_047	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.21099	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	G14_047	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.21099	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	2	20SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.39102	109.0354	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.39102	109.0354	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	17SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.42559	105.6664	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	17SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.42559	105.6664	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.39455	109.8364	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	2	20SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.39455	109.8364	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	2	17SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.42943	106.4247	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	2	17SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.42943	106.4247	PLANT X STATION - TOLK STATION EAST 230KV CKT 2

H: Power Flow Analysis (Other Constraints Not Requiring Mitigation)

See Next page

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13576	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13576	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1578	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1578	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_02	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.0324	100.1052	DBL-THIS-WIC
FDNS	06ALL	0	17G	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0324	140.9516	DBL-THIS-WIC
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03266	134.8645	DBL-THIS-WIC
FDNS	06ALL	0	16WP	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03269	127.0216	DBL-THIS-WIC
FDNS	0	0	16WP	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0316	126.1226	DBL-THIS-WIC
FDNS	0	0	20WP	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03278	122.6331	DBL-THIS-WIC
FDNS	06ALL	0	17SP	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03571	109.019	DBL-THIS-WIC
FDNS	06ALL	0	20SP	ASGI_14_02	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.13377	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_02	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.13377	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_02	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.06454	97.6	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	0	25SP	ASGI_14_02	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.06454	96.9	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	0	17G	ASGI_14_02	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11873	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_02	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11873	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_02	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11873	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_02	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11873	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03985	105.2394	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03985	186.1277	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03985	165.9905	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04354	165.2765	DBL-THIS-WWR
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03529	164.4193	DBL-THIS-WIC
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03985	164.2432	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0395	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0395	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0395	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0395	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03343	147.0377	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03289	146.0235	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03343	141.8598	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03343	141.8584	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03343	141.8512	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02959	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02959	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02959	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02959	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02963	136.7736	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02963	136.7736	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	117.2744	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04841	112.8812	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05251	107.7477	DBL-THIS-WWR
FDNS	06ALL	0	20SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04805	104.1063	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04264	104.0347	DBL-THIS-WIC
FDNS	06ALL	0	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	102.8059	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	0	0	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04871	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04841	102.1815	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05449	101.6082	DBL-THIS-WWR
FDNS	06ALL	0	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	101.4282	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05442	101.2316	DBL-THIS-WWR
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04841	100.9636	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04628	100.4498	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.0491	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.0491	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04505	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04505	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.0446	99.4	DBL-THIS-WIC
FDNS	06ALL	0	20SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03385	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNSLock-Iteration limit exceeded	0	0	16WP	ASGI_14_02		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04906	46.16103	BASE CASE
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12901	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12901	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.11078	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.11078	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12901	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12901	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10782	101.2759	DBL-G1114-WW
FDNS	06ALL	0	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10782	99.7	DBL-BVR-G111
FDNS	0	0	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12968	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12968	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.11078	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.11078	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.09221	96.4	DBL-G1114-WW
FDNS	06ALL	0	20L	ASGI_14_02	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11483	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11483	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_02	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13351	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_02	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13351	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_02	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.0324	116.0807	DBL-THIS-WIC
FDNS	06ALL	0	16WP	ASGI_14_02	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03269	104.2303	DBL-THIS-WIC
FDNS	0	0	16WP	ASGI_14_02	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.0316	103.5447	DBL-THIS-WIC
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_02	-	Non-Converged Contingency	1532	1793	0.08902	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_02	-	Non-Converged Contingency	1532	1793	0.08902	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_02	-	Non-Converged Contingency	1532	1793	0.08902	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	0	20L	ASGI_14_02	FROM->TO	Norton Switching Station - PLEASANT HILL 115KV CKT 1	159	160	1	97.7	BASE CASE
FDNS	06ALL	0	20L	ASGI_14_02	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.12539	110.0851	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	17G	ASGI_14_02	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.12606	105.9289	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	17SP	ASGI_14_02	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.13635	97	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	20SP	ASGI_14_02	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.14983	96.8	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	20L	ASGI_14_02	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13576	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13576	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13576	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_02	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13576	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13583	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13583	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15788	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15788	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_02	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03243	100.1185	DBL-THIS-WIC
FDNS	06ALL	2	17G	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03243	140.9693	DBL-THIS-WIC
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03267	134.8883	DBL-THIS-WIC
FDNS	06ALL	2	16WP	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03271	127.0475	DBL-THIS-WIC
FDNS	06ALL	2	17SP	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03573	109.0293	DBL-THIS-WIC
FDNS	06ALL	2	20SP	ASGI_14_02	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.1338	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_02	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.1338	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_02	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.06472	97.6	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	2	25SP	ASGI_14_02	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.06472	96.8	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	2	17G	ASGI_14_02	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11885	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_02	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11885	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_02	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11885	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_02	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11885	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03985	105.2438	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03985	186.1355	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03985	165.9976	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04354	165.272	DBL-THIS-WWR
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03529	164.4236	DBL-THIS-WIC
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03985	164.2503	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03948	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03948	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03948	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03948	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03345	147.0703	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0329	146.0529	P12:230:AEPW:ELKCTY6:SWEETWT6
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03345	141.8886	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03345	141.8877	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03345	141.88	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02959	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02959	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02959	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02959	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02964	136.7904	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02964	136.7904	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	117.2691	MATHWSN7 345.00 - TATONGA7 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	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04842	112.89	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0525	107.7449	DBL-THIS-WWR
FDNS	06ALL	2	20SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04805	104.1071	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04263	104.0255	DBL-THIS-WIC
FDNS	06ALL	2	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	102.8037	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04842	102.191	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05449	101.6078	DBL-THIS-WWR
FDNS	06ALL	2	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05441	101.2292	DBL-THIS-WWR
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04842	100.9732	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04628	100.4529	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04909	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04909	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04501	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04501	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04461	99.4	DBL-THIS-WIC
FDNS	06ALL	2	20SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03385	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12907	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12907	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.11084	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.11084	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12907	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12907	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10808	101.4646	DBL-G1114-WW
FDNS	06ALL	2	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10808	99.8	DBL-BVR-G111
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.11084	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.11084	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.09245	96.6	DBL-G1114-WW
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.09245	95	DBL-BVR-G111
FDNS	06ALL	2	20L	ASGI_14_02	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11489	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11489	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_02	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13357	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_02	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13357	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_02	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03243	116.0942	DBL-THIS-WIC
FDNS	06ALL	2	16WP	ASGI_14_02	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03271	104.2502	DBL-THIS-WIC
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	ASGI_14_02	-	Non-Converged Contingency	1532	1793	0.08907	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	ASGI_14_02	-	Non-Converged Contingency	1532	1793	0.08907	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	06ALL	2	20L	ASGI_14_02	FROM->TO	Norton Switching Station - PLEASANT HILL 115KV CKT 1	159	160	1	97.7	BASE CASE
FDNS	06ALL	2	20L	ASGI_14_02	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.1257	110.2593	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	17G	ASGI_14_02	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.12637	105.9841	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	17SP	ASGI_14_02	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.13665	97	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	20SP	ASGI_14_02	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.15019	96.9	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	20L	ASGI_14_02	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13583	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13583	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13583	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_02	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13583	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13567	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13567	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1577	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1577	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_02	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03241	100.1083	DBL-THIS-WIC
FDNS	06ALL	3	17G	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03241	140.9559	DBL-THIS-WIC
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03265	134.8709	DBL-THIS-WIC
FDNS	06ALL	3	16WP	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0327	127.0277	DBL-THIS-WIC
FDNS	06ALL	3	17SP	ASGI_14_02	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03571	109.009	DBL-THIS-WIC
FDNS	06ALL	3	20SP	ASGI_14_02	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.13439	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_02	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.13439	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	25SP	ASGI_14_02	FROM->TO	EDDY_NORTH 6230.00 (WAIK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.06578	98	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	3	25SP	ASGI_14_02	FROM->TO	EDDY_NORTH 6230.00 (WAIK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.06578	97.2	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	3	17G	ASGI_14_02	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11873	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_02	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11873	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_02	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11873	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_02	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11873	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03984	105.2423	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03984	186.1329	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03984	165.9942	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04354	165.2778	DBL-THIS-WWR
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03529	164.4221	DBL-THIS-WIC
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03984	164.2471	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03953	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03953	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03953	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03953	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03342	147.0576	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03288	146.0418	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03342	141.8708	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03342	141.8694	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03342	141.8622	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02959	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02959	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02959	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02959	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02962	136.782	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02962	136.782	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	117.3183	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.0484	112.8878	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05251	107.7803	DBL-THIS-WWR
FDNS	06ALL	3	20SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04804	104.0995	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04263	104.028	DBL-THIS-WIC
FDNS	06ALL	3	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	102.8036	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.0484	102.1886	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05449	101.6129	DBL-THIS-WWR
FDNS	06ALL	3	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05441	101.2315	DBL-THIS-WWR
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.0484	100.9709	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	17SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04628	100.4515	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04913	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04913	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04506	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04506	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.0446	99.4	DBL-THIS-WIC
FDNS	06ALL	3	20SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03385	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	ASGI_14_02	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.8	GEN520998 1-MORLND3
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12893	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12893	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.11071	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.11071	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12893	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12893	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.1078	101.3496	DBL-G1114-WW
FDNS	06ALL	3	20WP	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.1078	99.7	DBL-BVR-G111
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.11071	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.11071	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.09219	96.5	DBL-G1114-WW
FDNS	06ALL	3	20L	ASGI_14_02	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11476	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11476	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13342	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_02	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13342	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_02	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03241	116.0839	DBL-THIS-WIC
FDNS	06ALL	3	16WP	ASGI_14_02	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.0327	104.235	DBL-THIS-WIC
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_02	-	Non-Converged Contingency	1532	1793	0.08903	-	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_02	-	Non-Converged Contingency	1532	1793	0.08903	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_02	-	Non-Converged Contingency	1532	1793	0.08903	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_02	-	Non-Converged Contingency	1532	1793	0.08903	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	3	20L	ASGI_14_02	FROM->TO	Norton Switching Station - PLEASANT HILL 115KV CKT 1	159	160	1	97.7	BASE CASE
FDNS	06ALL	3	20L	ASGI_14_02	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13567	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13567	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13567	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_02	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13567	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12831	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12831	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15036	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15036	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_05	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03206	100.1052	DBL-THIS-WIC
FDNS	06ALL	0	17G	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03206	140.9516	DBL-THIS-WIC
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03191	134.8645	DBL-THIS-WIC
FDNS	06ALL	0	16WP	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03235	127.0216	DBL-THIS-WIC
FDNS	0	0	16WP	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03126	126.1226	DBL-THIS-WIC
FDNS	0	0	20WP	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03203	122.6331	DBL-THIS-WIC
FDNS	06ALL	0	17SP	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03531	109.019	DBL-THIS-WIC
FDNS	06ALL	0	20SP	ASGI_14_05	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04702	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_05	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04702	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_05	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11637	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_05	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11637	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_05	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11637	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_05	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11637	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.0394	105.2394	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0394	186.1277	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0394	165.9905	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04365	165.2765	DBL-THIS-WWR
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03503	164.4193	DBL-THIS-WIC
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0394	164.2432	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04151	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04151	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04151	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04151	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03218	147.0377	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03178	146.0235	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03218	141.8598	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03218	141.8584	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03218	141.8512	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	117.2744	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04797	112.8812	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05269	107.7477	DBL-THIS-WWR
FDNS	06ALL	0	20SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0476	104.1063	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04268	104.0347	DBL-THIS-WIC
FDNS	06ALL	0	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	102.8059	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	0	0	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04826	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04797	102.1815	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05461	101.6082	DBL-THIS-WWR
FDNS	06ALL	0	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	101.4282	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05453	101.2316	DBL-THIS-WWR
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04797	100.9636	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04619	100.4498	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05111	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05111	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04597	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04597	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04435	99.4	DBL-THIS-WIC
FDNS	06ALL	0	20SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03394	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNSLock-Iteration limit exceeded	0	0	16WP	ASGI_14_05		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04901	46.16103	BASE CASE
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12297	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12297	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10475	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10475	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12297	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12297	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.0937	101.2759	DBL-G1114-WW
FDNS	06ALL	0	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.0937	99.7	DBL-BVR-G111
FDNS	0	0	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12364	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12364	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10475	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10475	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07809	96.4	DBL-G1114-WW
FDNS	06ALL	0	20L	ASGI_14_05	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10854	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10854	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12722	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12722	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_05	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03206	116.0807	DBL-THIS-WIC
FDNS	06ALL	0	16WP	ASGI_14_05	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03235	104.2303	DBL-THIS-WIC
FDNS	0	0	16WP	ASGI_14_05	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03126	103.5447	DBL-THIS-WIC
FDNS	0	0	17SP	ASGI_14_05	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03221	98.2	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1
FDNS	0	0	17SP	ASGI_14_05	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03221	96.2	P12:115:LCEC:W56.1.HOBBG.LE-LVN
FDNS	0	0	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04281	125.3013	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04284	122.3704	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04281	121.2775	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04269	121.2343	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04272	117.7366	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04284	116.9381	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04269	115.374	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04272	110.6982	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04281	107.6375	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	0	0	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04281	107.0456	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04281	107.0452	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	17SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07382	104.395	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07393	102.608	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04284	102.4101	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	0	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04284	101.7166	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04284	101.7135	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04269	100.8421	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	0	0	20WP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04206	100.7235	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04269	100.057	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04269	100	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04272	98.4	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	0	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04272	97.6	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04272	97.6	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	0	0	17SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07382	97	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07393	96.3	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04214	96.10751	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07349	95.85363	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_05	-	Non-Converged Contingency	1532	1793	0.08814	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_05	-	Non-Converged Contingency	1532	1793	0.08814	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_05	-	Non-Converged Contingency	1532	1793	0.08814	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	0	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03045	102.7651	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03045	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03045	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03045	102.7429	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03045	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03045	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03045	99.1	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03045	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12831	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12831	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	353	353	0.12831	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_05	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	353	353	0.12831	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_05	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.11923	109.3673	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20WP	ASGI_14_05	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.11923	108.4517	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_05	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.09396	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_05	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.09396	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_05	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.09396	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_05	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.09396	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12831	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12831	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15036	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15036	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_05	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03208	100.1185	DBL-THIS-WIC

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	17G	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03208	140.9693	DBL-THIS-WIC
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03192	134.8883	DBL-THIS-WIC
FDNS	06ALL	2	16WP	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03237	127.0475	DBL-THIS-WIC
FDNS	06ALL	2	17SP	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03534	109.0293	DBL-THIS-WIC
FDNS	06ALL	2	20SP	ASGI_14_05	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04704	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_05	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04704	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_05	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11648	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_05	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11648	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_05	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11648	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_05	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11648	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03941	105.2438	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03941	186.1355	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03941	165.9976	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04365	165.272	DBL-THIS-WWR
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03504	164.4236	DBL-THIS-WIC
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03941	164.2503	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04151	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04151	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04151	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04151	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03219	147.0703	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03179	146.0529	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03219	141.8886	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03219	141.8877	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03219	141.88	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	117.2691	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04797	112.89	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05267	107.7449	DBL-THIS-WWR
FDNS	06ALL	2	20SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0476	104.1071	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04267	104.0255	DBL-THIS-WIC
FDNS	06ALL	2	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	102.8037	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04797	102.191	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05461	101.6078	DBL-THIS-WWR
FDNS	06ALL	2	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05453	101.2292	DBL-THIS-WWR
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04797	100.9732	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0462	100.4529	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05111	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05111	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04593	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04593	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04435	99.4	DBL-THIS-WIC
FDNS	06ALL	2	20SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03394	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12297	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12297	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10474	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10474	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12297	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12297	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09383	101.4646	DBL-G1114-WW
FDNS	06ALL	2	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09383	99.8	DBL-BVR-G111
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10474	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10474	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.0782	96.6	DBL-G1114-WW
FDNS	06ALL	2	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.0782	95	DBL-BVR-G111
FDNS	06ALL	2	20L	ASGI_14_05	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10853	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10853	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12721	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12721	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_05	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03208	116.0942	DBL-THIS-WIC
FDNS	06ALL	2	16WP	ASGI_14_05	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03237	104.2502	DBL-THIS-WIC
FDNS	06ALL	2	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04282	122.3759	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0427	117.729	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04282	116.9438	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0427	110.6902	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07392	102.6065	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04282	102.4169	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	2	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04282	101.7232	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04282	101.72	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0427	98.4	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	2	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0427	97.6	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0427	97.6	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07392	96.3	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04213	96.09061	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07348	95.85044	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	ASGI_14_05	-	Non-Converged Contingency	1532	1793	0.0882	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	ASGI_14_05	-	Non-Converged Contingency	1532	1793	0.0882	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	06ALL	2	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03043	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03043	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03043	102.7735	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03043	102.7514	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03043	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03043	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03043	99.1	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	ASGI_14_05	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03043	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12831	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12831	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12831	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_05	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12831	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12821	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12821	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15024	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15024	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_05	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03207	100.1083	DBL-THIS-WIC
FDNS	06ALL	3	17G	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03207	140.9559	DBL-THIS-WIC
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0319	134.8709	DBL-THIS-WIC
FDNS	06ALL	3	16WP	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03236	127.0277	DBL-THIS-WIC
FDNS	06ALL	3	17SP	ASGI_14_05	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03532	109.009	DBL-THIS-WIC
FDNS	06ALL	3	20SP	ASGI_14_05	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04736	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_05	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04736	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_05	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11638	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_05	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11638	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_05	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11638	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_05	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11638	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.0394	105.2423	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0394	186.1329	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0394	165.9942	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04365	165.2778	DBL-THIS-WWR
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03503	164.4221	DBL-THIS-WIC
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0394	164.2471	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04154	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04154	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04154	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04154	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03217	147.0576	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03177	146.0418	P12:230:AEPW:ELKCTY6:SWEETWT6
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03217	141.8708	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03217	141.8694	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03217	141.8622	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	117.3183	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04796	112.8878	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05268	107.7803	DBL-THIS-WWR
FDNS	06ALL	3	20SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0476	104.0995	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04267	104.028	DBL-THIS-WIC
FDNS	06ALL	3	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	102.8036	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04796	102.1886	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.0546	101.6129	DBL-THIS-WWR
FDNS	06ALL	3	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05453	101.2315	DBL-THIS-WWR
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04796	100.9709	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	17SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04619	100.4515	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05114	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05114	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04596	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04596	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04435	99.4	DBL-THIS-WIC
FDNS	06ALL	3	20SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03394	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	ASGI_14_05	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.8	GEN520998 1-MORLND3
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12287	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12287	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10466	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10466	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12287	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12287	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09366	101.3496	DBL-G1114-WW
FDNS	06ALL	3	20WP	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09366	99.7	DBL-BVR-G111
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10466	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10466	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07805	96.5	DBL-G1114-WW
FDNS	06ALL	3	20L	ASGI_14_05	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10845	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10845	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12712	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12712	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_05	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03207	116.0839	DBL-THIS-WIC
FDNS	06ALL	3	16WP	ASGI_14_05	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03236	104.235	DBL-THIS-WIC
FDNS	06ALL	3	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0429	122.4186	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04278	117.8156	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0429	116.9889	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04278	110.7802	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	3	17SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07408	102.7374	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0429	102.4656	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	3	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0429	101.7722	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	3	25SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0429	101.7691	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04278	98.5	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	3	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04278	97.7	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04278	97.7	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	3	17SP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07408	96.4	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0422	96.10957	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_05	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07363	95.95579	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_05	-	Non-Converged Contingency	1532	1793	0.08817	-	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_05	-	Non-Converged Contingency	1532	1793	0.08817	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_05	-	Non-Converged Contingency	1532	1793	0.08817	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_05	-	Non-Converged Contingency	1532	1793	0.08817	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	3	20L	ASGI_14_05	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12821	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12821	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12821	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_05	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12821	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12891	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12891	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15095	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15095	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_08	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03208	100.1052	DBL-THIS-WIC
FDNS	06ALL	0	17G	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03208	140.9516	DBL-THIS-WIC
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03197	134.8645	DBL-THIS-WIC
FDNS	06ALL	0	16WP	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03237	127.0216	DBL-THIS-WIC
FDNS	0	0	16WP	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03128	126.1226	DBL-THIS-WIC
FDNS	0	0	20WP	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03209	122.6331	DBL-THIS-WIC
FDNS	06ALL	0	17SP	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03533	109.019	DBL-THIS-WIC
FDNS	06ALL	0	20SP	ASGI_14_08	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04934	98	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	20SP	ASGI_14_08	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04934	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_08	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11649	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_08	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11649	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_08	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11649	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_08	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11649	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03944	105.2394	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03944	186.1277	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03944	165.9905	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04364	165.2765	DBL-THIS-WWR
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03506	164.4193	DBL-THIS-WIC
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03944	164.2432	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04135	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04135	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04135	147.3286	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04135	147.3286	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03228	147.0377	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03187	146.0235	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03228	141.8598	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03228	141.8584	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03228	141.8512	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	117.2744	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.048	112.8812	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05268	107.7477	DBL-THIS-WWR
FDNS	06ALL	0	20SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04764	104.1063	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04267	104.0347	DBL-THIS-WIC
FDNS	06ALL	0	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	102.8059	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	0	0	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.0483	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.048	102.1815	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.0546	101.6082	DBL-THIS-WWR
FDNS	06ALL	0	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	101.4282	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05452	101.2316	DBL-THIS-WWR
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.048	100.9636	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0462	100.4498	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05095	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05095	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04592	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04592	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04437	99.4	DBL-THIS-WIC
FDNS	06ALL	0	20SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03393	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNSLock-Iteration limit exceeded	0	0	16WP	ASGI_14_08		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04902	46.16103	BASE CASE
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12346	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12346	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10523	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10523	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12346	104.4757	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12346	104.4757	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09483	101.2759	DBL-G1114-WW
FDNS	06ALL	0	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09483	99.7	DBL-BVR-G111
FDNS	0	0	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12413	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12413	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10523	98.4	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10523	98.4	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07923	96.4	DBL-G1114-WW
FDNS	06ALL	0	20L	ASGI_14_08	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10904	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10904	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12772	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12772	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_08	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03208	116.0807	DBL-THIS-WIC
FDNS	06ALL	0	16WP	ASGI_14_08	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03237	104.2303	DBL-THIS-WIC
FDNS	0	0	16WP	ASGI_14_08	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03128	103.5447	DBL-THIS-WIC
FDNS	0	0	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03955	125.3013	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03958	122.3704	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	0	0	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03955	121.2775	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03943	121.2343	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03946	117.7366	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03958	116.9381	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03943	115.374	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03946	110.6982	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03955	107.6375	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	0	0	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03955	107.0456	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03955	107.0452	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	17SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06718	104.395	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06729	102.608	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03958	102.4101	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	0	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03958	101.7166	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03958	101.7135	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03943	100.8421	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	0	0	20WP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0388	100.7235	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03943	100.057	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03943	100	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03946	98.4	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	0	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03946	97.6	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03946	97.6	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	0	0	17SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06718	97	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06729	96.3	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03889	96.10751	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06686	95.85363	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_08	-	Non-Converged Contingency	1532	1793	0.08819	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_08	-	Non-Converged Contingency	1532	1793	0.08819	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_08	-	Non-Converged Contingency	1532	1793	0.08819	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	0	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03348	102.7651	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03348	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03348	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03348	102.7429	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03348	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03348	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03348	99.1	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03348	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12891	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12891	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12891	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_08	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12891	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_08	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.13372	109.3673	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20WP	ASGI_14_08	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.13372	108.4517	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_08	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.10844	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_08	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.10844	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_08	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.10844	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12891	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12891	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15096	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15096	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_08	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.0321	100.1185	DBL-THIS-WIC
FDNS	06ALL	2	17G	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0321	140.9693	DBL-THIS-WIC
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03198	134.8883	DBL-THIS-WIC
FDNS	06ALL	2	16WP	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03239	127.0475	DBL-THIS-WIC
FDNS	06ALL	2	17SP	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03536	109.0293	DBL-THIS-WIC
FDNS	06ALL	2	20SP	ASGI_14_08	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04936	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_08	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04936	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_08	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11661	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_08	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11661	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_08	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11661	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_08	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11661	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03944	105.2438	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03944	186.1355	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03944	165.9976	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04364	165.272	DBL-THIS-WWR

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03506	164.4236	DBL-THIS-WIC
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03944	164.2503	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04135	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04135	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04135	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04135	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03229	147.0703	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03188	146.0529	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03229	141.8886	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03229	141.8877	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03229	141.88	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	117.2691	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04801	112.89	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05266	107.7449	DBL-THIS-WWR
FDNS	06ALL	2	20SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04764	104.1071	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04267	104.0255	DBL-THIS-WIC
FDNS	06ALL	2	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	102.8037	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04801	102.191	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.0546	101.6078	DBL-THIS-WWR
FDNS	06ALL	2	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05452	101.2292	DBL-THIS-WWR
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04801	100.9732	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0462	100.4529	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05095	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05095	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04588	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04588	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04437	99.4	DBL-THIS-WIC
FDNS	06ALL	2	20SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03393	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12346	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12346	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10523	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10523	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12346	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12346	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09498	101.4646	DBL-G1114-WW
FDNS	06ALL	2	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09498	99.8	DBL-BVR-G111
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10523	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10523	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07935	96.6	DBL-G1114-WW
FDNS	06ALL	2	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07935	95	DBL-BVR-G111
FDNS	06ALL	2	20L	ASGI_14_08	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10904	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10904	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12773	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12773	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_08	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.0321	116.0942	DBL-THIS-WIC
FDNS	06ALL	2	16WP	ASGI_14_08	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03239	104.2502	DBL-THIS-WIC
FDNS	06ALL	2	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03956	122.3759	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03944	117.729	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03956	116.9438	BUCKEY TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03944	110.6902	BUCKEY TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06728	102.6065	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03956	102.4169	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	2	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03956	101.7232	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03956	101.72	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03944	98.4	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	2	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03944	97.6	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03944	97.6	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06728	96.3	BUCKEY TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03887	96.09061	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06685	95.85044	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	ASGI_14_08	-	Non-Converged Contingency	1532	1793	0.08825	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	ASGI_14_08	-	Non-Converged Contingency	1532	1793	0.08825	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	06ALL	2	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03346	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03346	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03346	102.7735	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03346	102.7514	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03346	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03346	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03346	99	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03346	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12891	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12891	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12891	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_08	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12891	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1288	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1288	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_08	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15084	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_08	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15084	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_08	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03209	100.1083	DBL-THIS-WIC
FDNS	06ALL	3	17G	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03209	140.9559	DBL-THIS-WIC
FDNS	06ALL	3	20WP	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03196	134.8709	DBL-THIS-WIC
FDNS	06ALL	3	16WP	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03238	127.0277	DBL-THIS-WIC
FDNS	06ALL	3	17SP	ASGI_14_08	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03534	109.009	DBL-THIS-WIC
FDNS	06ALL	3	20SP	ASGI_14_08	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04972	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_08	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04972	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_08	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11651	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_08	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11651	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_08	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11651	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_08	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11651	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03944	105.2423	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03944	186.1329	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03944	165.9942	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04364	165.2778	DBL-THIS-WWR
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03505	164.4221	DBL-THIS-WIC
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03944	164.2471	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04138	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04138	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04138	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04138	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03227	147.0576	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03186	146.0418	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03227	141.8708	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03227	141.8694	P12:230:AEPW:SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03227	141.8622	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	20L	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	117.3183	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.048	112.8878	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05267	107.7803	DBL-THIS-WWR
FDNS	06ALL	3	20SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04763	104.0995	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04267	104.028	DBL-THIS-WIC
FDNS	06ALL	3	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	102.8036	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.048	102.1886	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.0546	101.6129	DBL-THIS-WWR
FDNS	06ALL	3	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05452	101.2315	DBL-THIS-WWR
FDNS	06ALL	3	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.048	100.9709	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	17SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04619	100.4515	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05098	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05098	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04592	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04592	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04437	99.4	DBL-THIS-WIC
FDNS	06ALL	3	20SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03393	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	ASGI_14_08	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.8	GEN520998 1-MORLND3
FDNS	06ALL	3	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12336	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	06ALL		3	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12336	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10515	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10515	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12336	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL		3	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12336	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL		3	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09479	101.3496	DBL-G1114-WW
FDNS	06ALL		3	20WP	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09479	99.7	DBL-BVR-G111
FDNS	06ALL		3	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10515	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL		3	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10515	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL		3	20L	ASGI_14_08	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07918	96.5	DBL-G1114-WW
FDNS	06ALL		3	20L	ASGI_14_08	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10895	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	ASGI_14_08	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10895	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20WP	ASGI_14_08	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12762	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20WP	ASGI_14_08	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12762	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	17G	ASGI_14_08	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03209	116.0839	DBL-THIS-WIC
FDNS	06ALL		3	16WP	ASGI_14_08	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03238	104.235	DBL-THIS-WIC
FDNS	06ALL		3	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03965	122.4186	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL		3	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03952	117.8156	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03965	116.9889	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL		3	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03952	110.7802	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL		3	17SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06745	102.7374	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03965	102.4656	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL		3	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03965	101.7722	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03965	101.7691	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL		3	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03952	98.5	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL		3	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03952	97.7	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL		3	20SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03952	97.7	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL		3	17SP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06745	96.4	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL		3	20WP	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03895	96.10957	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL		3	17G	ASGI_14_08	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06701	95.95579	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL		3	16WP	ASGI_14_08	-	Non-Converged Contingency	1532	1793	0.08821	-	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNSLock-Iteration limit exceeded	06ALL		3	16WP	ASGI_14_08	-	Non-Converged Contingency	1532	1793	0.08821	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL		3	16WP	ASGI_14_08	-	Non-Converged Contingency	1532	1793	0.08821	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL		3	16WP	ASGI_14_08	-	Non-Converged Contingency	1532	1793	0.08821	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL		3	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0319	101.4077	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0319	101.3877	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL		3	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0319	101.3877	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL		3	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0319	101.3877	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL		3	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0319	97.8	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0319	97.8	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL		3	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0319	97.8	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL		3	25SP	ASGI_14_08	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0319	97.8	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL		3	20L	ASGI_14_08	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.1288	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	ASGI_14_08	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.1288	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	ASGI_14_08	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.1288	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	ASGI_14_08	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.1288	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20L	ASGI_14_09	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12791	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20L	ASGI_14_09	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12791	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20WP	ASGI_14_09	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14996	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20WP	ASGI_14_09	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14996	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	17G	ASGI_14_09	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03205	100.1052	DBL-THIS-WIC
FDNS	06ALL		0	17G	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03205	140.9516	DBL-THIS-WIC
FDNS	06ALL		0	20WP	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03187	134.8645	DBL-THIS-WIC
FDNS	06ALL		0	16WP	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03234	127.0216	DBL-THIS-WIC
FDNS	0		0	16WP	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03125	126.1226	DBL-THIS-WIC
FDNS	0		0	20WP	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03199	122.6331	DBL-THIS-WIC
FDNS	06ALL		0	17SP	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0353	109.019	DBL-THIS-WIC
FDNS	06ALL		0	20SP	ASGI_14_09	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04566	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL		0	20SP	ASGI_14_09	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04566	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL		0	17G	ASGI_14_09	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1163	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	17G	ASGI_14_09	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1163	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	17G	ASGI_14_09	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1163	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	17G	ASGI_14_09	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1163	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20L	ASGI_14_09	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03938	105.2394	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	186.1277	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	165.9905	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04366	165.2765	DBL-THIS-WWR
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03502	164.4193	DBL-THIS-WIC
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	164.2432	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04162	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04162	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04162	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04162	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03211	147.0377	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03172	146.0235	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03211	141.8598	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03211	141.8584	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03211	141.8512	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	117.2744	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	112.8812	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05269	107.7477	DBL-THIS-WWR
FDNS	06ALL	0	20SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	104.1063	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04268	104.0347	DBL-THIS-WIC
FDNS	06ALL	0	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	102.8059	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	0	0	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04824	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	102.1815	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05461	101.6082	DBL-THIS-WWR
FDNS	06ALL	0	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	101.4282	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05454	101.2316	DBL-THIS-WWR
FDNS	06ALL	0	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	100.9636	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04619	100.4498	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05122	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05122	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.046	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.046	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04434	99.4	DBL-THIS-WIC
FDNS	06ALL	0	20SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03395	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNS	Lock-Iteration limit exceeded	0	16WP	ASGI_14_09		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04901	46.16103	BASE CASE
FDNS	06ALL	0	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12264	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12264	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10442	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10442	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12264	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12264	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09294	101.2759	DBL-G1114-WW
FDNS	06ALL	0	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09294	99.7	DBL-BVR-G111
FDNS	0	0	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12332	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12332	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10442	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10442	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07733	96.4	DBL-G1114-WW
FDNS	06ALL	0	20L	ASGI_14_09	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.1082	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.1082	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12688	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12688	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_09	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03205	116.0807	DBL-THIS-WIC
FDNS	06ALL	0	16WP	ASGI_14_09	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03234	104.2303	DBL-THIS-WIC
FDNS	0	0	16WP	ASGI_14_09	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03125	103.5447	DBL-THIS-WIC
FDNS	0	0	17SP	ASGI_14_09	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03307	98.2	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1
FDNS	0	0	17SP	ASGI_14_09	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03307	96.2	P12:115:LCEC:W56.1.HOBBG.LE-LVN
FDNS	0	0	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04014	125.3013	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04017	122.3704	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04014	121.2775	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04002	121.2343	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04005	117.7366	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04017	116.9381	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	0	0	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04002	115.374	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04005	110.6982	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04014	107.6375	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	0	0	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04014	107.0456	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04014	107.0452	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	17SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07572	104.395	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07583	102.608	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04017	102.4101	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	0	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04017	101.7166	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04017	101.7135	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04002	100.8421	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	0	0	20WP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03939	100.7235	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04002	100.057	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04002	100	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04005	98.4	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	0	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04005	97.6	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04005	97.6	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	0	0	17SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07572	97	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07583	96.3	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03947	96.10751	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07537	95.85363	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_09	-	Non-Converged Contingency	1532	1793	0.08812	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_09	-	Non-Converged Contingency	1532	1793	0.08812	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_09	-	Non-Converged Contingency	1532	1793	0.08812	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	0	20SP	ASGI_14_09	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.19221	109.0305	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_09	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.19221	109.0305	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_09	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.1941	109.8316	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	20SP	ASGI_14_09	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.1941	109.8316	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	20L	ASGI_14_09	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12791	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12791	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12791	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_09	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12791	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_09	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.10768	109.3673	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20WP	ASGI_14_09	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.10768	108.4517	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_09	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.0824	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_09	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.0824	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_09	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.0824	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1279	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1279	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14995	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14995	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_09	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03207	100.1185	DBL-THIS-WIC
FDNS	06ALL	2	17G	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03207	140.9693	DBL-THIS-WIC
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03187	134.8883	DBL-THIS-WIC
FDNS	06ALL	2	16WP	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03236	127.0475	DBL-THIS-WIC
FDNS	06ALL	2	17SP	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03533	109.0293	DBL-THIS-WIC
FDNS	06ALL	2	20SP	ASGI_14_09	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04567	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_09	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04567	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_09	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11642	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_09	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11642	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_09	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11642	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_09	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11642	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03938	105.2438	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	186.1355	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	165.9976	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04366	165.272	DBL-THIS-WWR
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03502	164.4236	DBL-THIS-WIC
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	164.2503	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04162	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04162	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04162	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04162	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03212	147.0703	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03173	146.0529	P12:230:AEPW:ELKCITY6:SWEETWT6

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03212	141.8886	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03212	141.8877	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03212	141.88	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	117.2691	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04795	112.89	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05268	107.7449	DBL-THIS-WWR
FDNS	06ALL	2	20SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	104.1071	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04267	104.0255	DBL-THIS-WIC
FDNS	06ALL	2	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	102.8037	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04795	102.191	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05461	101.6078	DBL-THIS-WWR
FDNS	06ALL	2	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04749	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05453	101.2292	DBL-THIS-WWR
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04795	100.9732	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04619	100.4529	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05122	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05122	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04595	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04595	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04434	99.4	DBL-THIS-WIC
FDNS	06ALL	2	20SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03395	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12264	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12264	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10441	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10441	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12264	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12264	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09306	101.4646	DBL-G1114-WW
FDNS	06ALL	2	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09306	99.8	DBL-BVR-G111
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10441	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10441	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07742	96.6	DBL-G1114-WW
FDNS	06ALL	2	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07742	95	DBL-BVR-G111
FDNS	06ALL	2	20L	ASGI_14_09	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10819	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10819	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12687	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12687	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_09	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03207	116.0942	DBL-THIS-WIC
FDNS	06ALL	2	16WP	ASGI_14_09	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03236	104.2502	DBL-THIS-WIC
FDNS	06ALL	2	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04015	122.3759	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04003	117.729	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04015	116.9438	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04003	110.6902	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07582	102.6065	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04015	102.4169	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	2	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04015	101.7232	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04015	101.72	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04003	98.4	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	2	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04003	97.6	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04003	97.6	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07582	96.3	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03946	96.09061	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07537	95.85044	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	ASGI_14_09	-	Non-Converged Contingency	1532	1793	0.08818	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	ASGI_14_09	-	Non-Converged Contingency	1532	1793	0.08818	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	06ALL	2	20SP	ASGI_14_09	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.19223	109.0354	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_09	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.19223	109.0354	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_09	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.19412	109.8364	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	2	20SP	ASGI_14_09	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.19412	109.8364	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	2	20L	ASGI_14_09	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.1279	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.1279	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	20L	ASGI_14_09	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.1279	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_09	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.1279	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12781	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12781	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14984	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14984	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_09	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03206	100.1083	DBL-THIS-WIC
FDNS	06ALL	3	17G	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03206	140.9559	DBL-THIS-WIC
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03186	134.8709	DBL-THIS-WIC
FDNS	06ALL	3	16WP	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03235	127.0277	DBL-THIS-WIC
FDNS	06ALL	3	17SP	ASGI_14_09	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03531	109.009	DBL-THIS-WIC
FDNS	06ALL	3	20SP	ASGI_14_09	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04597	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_09	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04597	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_09	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11632	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_09	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11632	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_09	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11632	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_09	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11632	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03938	105.2423	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	186.1329	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	165.9942	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04366	165.2778	DBL-THIS-WWR
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03502	164.4221	DBL-THIS-WIC
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	164.2471	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04165	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04165	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04165	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04165	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03211	147.0576	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03171	146.0418	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03211	141.8708	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03211	141.8694	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03211	141.8622	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	117.3183	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	112.8878	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05268	107.7803	DBL-THIS-WWR
FDNS	06ALL	3	20SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04757	104.0995	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04267	104.028	DBL-THIS-WIC
FDNS	06ALL	3	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	102.8036	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	102.1886	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05461	101.6129	DBL-THIS-WWR
FDNS	06ALL	3	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05453	101.2315	DBL-THIS-WWR
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	100.9709	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	17SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04619	100.4515	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05125	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05125	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04599	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04599	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04433	99.4	DBL-THIS-WIC
FDNS	06ALL	3	20SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03394	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	ASGI_14_09	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.8	GEN520998 1-MORLND3
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12255	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12255	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10433	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10433	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12255	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12255	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.0929	101.3496	DBL-G1114-WW
FDNS	06ALL	3	20WP	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.0929	99.7	DBL-BVR-G111
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10433	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10433	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07729	96.5	DBL-G1114-WW
FDNS	06ALL	3	20L	ASGI_14_09	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10811	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10811	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	3	20WP	ASGI_14_09	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12678	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12678	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_09	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03206	116.0839	DBL-THIS-WIC
FDNS	06ALL	3	16WP	ASGI_14_09	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03235	104.235	DBL-THIS-WIC
FDNS	06ALL	3	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04022	122.4186	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0401	117.8156	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04022	116.9889	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0401	110.7802	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	3	17SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07598	102.7374	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04022	102.4656	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	3	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04022	101.7722	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	3	25SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04022	101.7691	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0401	98.5	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	3	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0401	97.7	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0401	97.7	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	3	17SP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07598	96.4	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.03953	96.10957	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_09	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07552	95.95579	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_09	-	Non-Converged Contingency	1532	1793	0.08814	-	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_09	-	Non-Converged Contingency	1532	1793	0.08814	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_09	-	Non-Converged Contingency	1532	1793	0.08814	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_09	-	Non-Converged Contingency	1532	1793	0.08814	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	3	20L	ASGI_14_09	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12781	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12781	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12781	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_09	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12781	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12794	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12794	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14998	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14998	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_10	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03204	100.1052	DBL-THIS-WIC
FDNS	06ALL	0	17G	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03204	140.9516	DBL-THIS-WIC
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03187	134.8645	DBL-THIS-WIC
FDNS	06ALL	0	16WP	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03233	127.0216	DBL-THIS-WIC
FDNS	0	0	16WP	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03124	126.1226	DBL-THIS-WIC
FDNS	0	0	20WP	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03199	122.6331	DBL-THIS-WIC
FDNS	06ALL	0	17SP	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03529	109.019	DBL-THIS-WIC
FDNS	06ALL	0	20SP	ASGI_14_10	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04552	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_10	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04552	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_10	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11624	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_10	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11624	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_10	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11624	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_10	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11624	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03938	105.2394	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	186.1277	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	165.9905	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04366	165.2765	DBL-THIS-WWR
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03502	164.4193	DBL-THIS-WIC
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	164.2432	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04161	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04161	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04161	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04161	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03212	147.0377	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03172	146.0235	P12:230:AEPW:ELKCTY6:SWEETWT6
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03212	141.8598	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03212	141.8584	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03212	141.8512	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	117.2744	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	112.8812	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0527	107.7477	DBL-THIS-WWR
FDNS	06ALL	0	20SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	104.1063	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04268	104.0347	DBL-THIS-WIC
FDNS	06ALL	0	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	102.8059	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	0	0	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04824	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	102.1815	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05461	101.6082	DBL-THIS-WWR
FDNS	06ALL	0	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	101.4282	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05454	101.2316	DBL-THIS-WWR
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	100.9636	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04619	100.4498	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05122	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05122	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04602	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04602	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04434	99.4	DBL-THIS-WIC
FDNS	06ALL	0	20SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03395	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNSLock-Iteration limit exceeded	0	0	16WP	ASGI_14_10		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04901	46.16103	BASE CASE
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12266	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12266	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10444	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10444	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12266	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12266	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09298	101.2759	DBL-G1114-WW
FDNS	06ALL	0	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09298	99.7	DBL-BVR-G111
FDNS	0	0	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12333	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12333	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10444	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10444	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07737	96.4	DBL-G1114-WW
FDNS	06ALL	0	20L	ASGI_14_10	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10822	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10822	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.1269	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.1269	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_10	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03204	116.0807	DBL-THIS-WIC
FDNS	06ALL	0	16WP	ASGI_14_10	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03233	104.2303	DBL-THIS-WIC
FDNS	0	0	16WP	ASGI_14_10	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03124	103.5447	DBL-THIS-WIC
FDNS	0	0	17SP	ASGI_14_10	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.0348	98.2	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1
FDNS	0	0	17SP	ASGI_14_10	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.0348	96.2	P12:115:LCEC:W56.1.HOBGG.LE-LVN
FDNS	0	0	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04649	125.3013	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04652	122.3704	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04649	121.2775	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04637	121.2343	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0464	117.7366	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04652	116.9381	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04637	115.374	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0464	110.6982	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04649	107.6375	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	0	0	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04649	107.0456	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04649	107.0452	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	17SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07919	104.395	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0793	102.608	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04652	102.4101	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	0	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04652	101.7166	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04652	101.7135	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04637	100.8421	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	0	0	20WP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04574	100.7235	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04637	100.057	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04637	100	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0464	98.4	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	0	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0464	97.6	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0464	97.6	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	0	0	17SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07919	97	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0793	96.3	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04582	96.10751	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17G	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07883	95.85363	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_10	-	Non-Converged Contingency	1532	1793	0.08809	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_10	-	Non-Converged Contingency	1532	1793	0.08809	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_10	-	Non-Converged Contingency	1532	1793	0.08809	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	0	20SP	ASGI_14_10	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.19024	109.0305	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_10	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.19024	109.0305	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_10	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.19212	109.8316	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	20SP	ASGI_14_10	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.19212	109.8316	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	20L	ASGI_14_10	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12794	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12794	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12794	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_10	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12794	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_10	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.11066	109.3673	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20WP	ASGI_14_10	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.11066	108.4517	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_10	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.08539	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_10	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.08539	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_10	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.08539	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_10	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.08539	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12792	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12792	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14998	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14998	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_10	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03207	100.1185	DBL-THIS-WIC
FDNS	06ALL	2	17G	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03207	140.9693	DBL-THIS-WIC
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03188	134.8883	DBL-THIS-WIC
FDNS	06ALL	2	16WP	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03235	127.0475	DBL-THIS-WIC
FDNS	06ALL	2	17SP	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03532	109.0293	DBL-THIS-WIC
FDNS	06ALL	2	20SP	ASGI_14_10	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04553	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_10	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04553	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_10	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11636	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_10	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11636	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_10	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11636	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_10	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11636	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03938	105.2438	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	186.1355	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	165.9976	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04366	165.272	DBL-THIS-WWR
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03502	164.4236	DBL-THIS-WIC
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	164.2503	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04162	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04162	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04162	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04162	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03212	147.0703	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03173	146.0529	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03212	141.8886	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03212	141.8877	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03212	141.88	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	117.2691	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04795	112.89	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05268	107.7449	DBL-THIS-WWR
FDNS	06ALL	2	20SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	104.1071	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04267	104.0255	DBL-THIS-WIC
FDNS	06ALL	2	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	102.8037	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04795	102.191	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05461	101.6078	DBL-THIS-WWR
FDNS	06ALL	2	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05453	101.2292	DBL-THIS-WWR
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04795	100.9732	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04619	100.4529	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05122	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05122	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04597	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04597	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04434	99.4	DBL-THIS-WIC
FDNS	06ALL	2	20SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03394	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12266	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12266	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10443	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10443	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12266	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12266	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.0931	101.4646	DBL-G1114-WW
FDNS	06ALL	2	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.0931	99.8	DBL-BVR-G111
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10443	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10443	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07747	96.6	DBL-G1114-WW
FDNS	06ALL	2	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07747	95	DBL-BVR-G111
FDNS	06ALL	2	20L	ASGI_14_10	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10821	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10821	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12689	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12689	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_10	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03207	116.0942	DBL-THIS-WIC
FDNS	06ALL	2	16WP	ASGI_14_10	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03235	104.2502	DBL-THIS-WIC
FDNS	06ALL	2	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0465	122.3759	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04638	117.729	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0465	116.9438	BUCKEY TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04638	110.6902	BUCKEY TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07929	102.6065	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0465	102.4169	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	2	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0465	101.7232	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0465	101.72	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04638	98.4	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	2	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04638	97.6	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04638	97.6	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07929	96.3	BUCKEY TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04581	96.09061	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07883	95.85044	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	ASGI_14_10	-	Non-Converged Contingency	1532	1793	0.08815	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	ASGI_14_10	-	Non-Converged Contingency	1532	1793	0.08815	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	06ALL	2	20SP	ASGI_14_10	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.19026	109.0354	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_10	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.19026	109.0354	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_10	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.19213	109.8364	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	2	20SP	ASGI_14_10	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.19213	109.8364	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	2	20L	ASGI_14_10	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12792	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12792	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12792	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_10	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12792	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12783	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12783	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14986	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14986	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_10	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03205	100.1083	DBL-THIS-WIC
FDNS	06ALL	3	17G	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03205	140.9559	DBL-THIS-WIC
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03187	134.8709	DBL-THIS-WIC
FDNS	06ALL	3	16WP	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03234	127.0277	DBL-THIS-WIC
FDNS	06ALL	3	17SP	ASGI_14_10	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0353	109.009	DBL-THIS-WIC
FDNS	06ALL	3	20SP	ASGI_14_10	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04583	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_10	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04583	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_10	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11626	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_10	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11626	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_10	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11626	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_10	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11626	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03938	105.2423	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	186.1329	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	165.9942	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04366	165.2778	DBL-THIS-WWR
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03502	164.4221	DBL-THIS-WIC
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	164.2471	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04164	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04164	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04164	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04164	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03211	147.0576	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03172	146.0418	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03211	141.8708	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03211	141.8694	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03211	141.8622	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	117.3183	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	112.8878	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05269	107.7803	DBL-THIS-WWR
FDNS	06ALL	3	20SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04757	104.0995	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04267	104.028	DBL-THIS-WIC
FDNS	06ALL	3	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	102.8036	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	102.1886	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05461	101.6129	DBL-THIS-WWR
FDNS	06ALL	3	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05453	101.2315	DBL-THIS-WWR
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	100.9709	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	17SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04618	100.4515	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05124	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05124	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04601	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04601	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04433	99.4	DBL-THIS-WIC
FDNS	06ALL	3	20SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03394	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	ASGI_14_10	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.8	GEN520998 1-MORLND3
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12257	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12257	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10436	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10436	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12257	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12257	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09294	101.3496	DBL-G1114-WW
FDNS	06ALL	3	20WP	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09294	99.7	DBL-BVR-G111
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10436	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10436	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07733	96.5	DBL-G1114-WW
FDNS	06ALL	3	20L	ASGI_14_10	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10813	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10813	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.1268	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.1268	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_10	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03205	116.0839	DBL-THIS-WIC
FDNS	06ALL	3	16WP	ASGI_14_10	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03234	104.235	DBL-THIS-WIC
FDNS	06ALL	3	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04657	122.4186	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04645	117.8156	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04657	116.9889	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04645	110.7802	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	3	17SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07944	102.7374	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04657	102.4656	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	3	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04657	101.7722	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	3	25SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04657	101.7691	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04645	98.5	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	3	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04645	97.7	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04645	97.7	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	3	17SP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07944	96.4	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04588	96.10957	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_10	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.07898	95.95579	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_10	-	Non-Converged Contingency	1532	1793	0.08812	-	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_10	-	Non-Converged Contingency	1532	1793	0.08812	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_10	-	Non-Converged Contingency	1532	1793	0.08812	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	ASGI_14_10	-	Non-Converged Contingency	1532	1793	0.08812	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	3	20L	ASGI_14_10	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12783	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12783	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12783	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_10	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12783	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12804	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12804	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15009	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15009	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_12	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03201	100.1052	DBL-THIS-WIC
FDNS	06ALL	0	17G	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03201	140.9516	DBL-THIS-WIC
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03188	134.8645	DBL-THIS-WIC
FDNS	06ALL	0	16WP	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0323	127.0216	DBL-THIS-WIC
FDNS	0	0	16WP	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03121	126.1226	DBL-THIS-WIC
FDNS	0	0	20WP	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.032	122.6331	DBL-THIS-WIC
FDNS	06ALL	0	17SP	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03526	109.019	DBL-THIS-WIC
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	CUNNINGHAM STATION - MADDOX STATION 115KV CKT 1	159.95	159.95	0.10692	100.2315	HOBBS INTERCHANGE - MADDOX STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	CUNNINGHAM STATION - MADDOX STATION 115KV CKT 1	159.95	159.95	0.10692	100.2315	HOBBS INTERCHANGE - MADDOX STATION 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_12	FROM->TO	CUNNINGHAM STATION - MADDOX STATION 115KV CKT 1	159.95	159.95	0.10693	95.3	HOBBS INTERCHANGE - MADDOX STATION 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_12	FROM->TO	CUNNINGHAM STATION - MADDOX STATION 115KV CKT 1	159.95	159.95	0.10693	95.3	HOBBS INTERCHANGE - MADDOX STATION 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_12	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04531	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_12	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04531	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_12	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11606	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_12	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11606	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_12	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11606	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_12	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11606	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03939	105.2394	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03939	186.1277	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03939	165.9905	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04366	165.2765	DBL-THIS-WWR
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03502	164.4193	DBL-THIS-WIC
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03939	164.2432	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04158	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04158	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04158	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04158	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03213	147.0377	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03174	146.0235	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03213	141.8598	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03213	141.8584	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03213	141.8512	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04747	117.2744	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04795	112.8812	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05271	107.7477	DBL-THIS-WWR
FDNS	06ALL	0	20SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	104.1063	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04268	104.0347	DBL-THIS-WIC
FDNS	06ALL	0	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04747	102.8059	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	0	0	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04824	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04795	102.1815	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05461	101.6082	DBL-THIS-WWR
FDNS	06ALL	0	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04747	101.4282	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05453	101.2316	DBL-THIS-WWR
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04795	100.9636	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04618	100.4498	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05119	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05119	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04609	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04609	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04434	99.4	DBL-THIS-WIC

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	20SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03394	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNSLock-Iteration limit exceeded	0	0	16WP	ASGI_14_12		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04901	46.16103	BASE CASE
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12275	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12275	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10453	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10453	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12275	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12275	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09318	101.2759	DBL-G1114-WW
FDNS	06ALL	0	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09318	99.7	DBL-BVR-G111
FDNS	0	0	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12342	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12342	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10453	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10453	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07758	96.4	DBL-G1114-WW
FDNS	06ALL	0	20L	ASGI_14_12	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10831	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10831	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12699	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12699	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	ASGI_14_12	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03201	116.0807	DBL-THIS-WIC
FDNS	06ALL	0	16WP	ASGI_14_12	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.0323	104.2303	DBL-THIS-WIC
FDNS	0	0	16WP	ASGI_14_12	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03121	103.5447	DBL-THIS-WIC
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04648	106.1491	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04648	106.1478	MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_12	FROM->TO	HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04646	101.7233	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_12	FROM->TO	HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04646	101.7218	MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_12	FROM->TO	HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.0464	96.3	MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_12	FROM->TO	HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.0464	96.3	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04648	95.4	OXY PERMIAN SUB - WEST BENDER SUB 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03262	121.978	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03262	120.9639	P12:115:LCEC:W56.1.HOBGG.LE-LVN
FDNS	0	0	20SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03257	113.9161	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03257	112.5554	P12:115:LCEC:W56.1.HOBGG.LE-LVN
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03263	109.8699	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03263	108.1144	P12:115:LCEC:W56.1.HOBGG.LE-LVN
FDNS	06ALL	0	20SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03258	104.9577	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03258	102.9192	P12:115:LCEC:W56.1.HOBGG.LE-LVN
FDNS	0	0	17SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.04452	98.2	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03262	98	HOBBS INTERCHANGE - LE-WEST_SUB3115.00 115KV CKT 1
FDNS	0	0	17SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.04452	96.2	P12:115:LCEC:W56.1.HOBGG.LE-LVN
FDNS	0	0	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0692	125.3013	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06922	122.3704	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0692	121.2775	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06908	121.2343	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0691	117.7366	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06922	116.9381	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06908	115.374	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0691	110.6982	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0692	107.6375	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	0	0	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0692	107.0456	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	0	0	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0692	107.0452	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	17SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.09638	104.395	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.09649	102.608	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06922	102.4101	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06922	101.7166	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06922	101.7135	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06908	100.8421	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	0	0	20WP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06845	100.7235	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	0	0	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06908	100.057	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	0	0	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06908	100	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0691	98.4	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	0	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0691	97.6	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0691	97.6	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	0	0	17SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.09638	97	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	17SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.09649	96.3	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06853	96.10751	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17G	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.09601	95.85363	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	MILLEN SUB - NORTHEAST HOBBS SUB 115KV CKT 1	141	141	0.04648	96	MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL	0	25SP	ASGI_14_12	FROM->TO	MILLEN SUB - NORTHEAST HOBBS SUB 115KV CKT 1	141	141	0.04648	96	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_12	-	Non-Converged Contingency	1532	1793	0.08802	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_12	-	Non-Converged Contingency	1532	1793	0.08802	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	ASGI_14_12	-	Non-Converged Contingency	1532	1793	0.08802	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	0	20SP	ASGI_14_12	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.18614	109.0305	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_12	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.18614	109.0305	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20SP	ASGI_14_12	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 1	478.05	501.95	0.18799	109.8316	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	20SP	ASGI_14_12	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.18799	109.8316	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	0	20L	ASGI_14_12	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12804	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12804	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12804	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	ASGI_14_12	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12804	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	ASGI_14_12	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.12027	109.3673	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20WP	ASGI_14_12	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.12027	108.4517	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_12	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.095	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_12	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.095	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_12	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.095	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	ASGI_14_12	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.095	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12804	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12804	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15009	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15009	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_12	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03204	100.1185	DBL-THIS-WIC
FDNS	06ALL	2	17G	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03204	140.9693	DBL-THIS-WIC
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03189	134.8883	DBL-THIS-WIC
FDNS	06ALL	2	16WP	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03233	127.0475	DBL-THIS-WIC
FDNS	06ALL	2	17SP	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03529	109.0293	DBL-THIS-WIC
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	CUNNINGHAM STATION - MADDOX STATION 115KV CKT 1	159.95	159.95	0.10691	100.2349	HOBBS INTERCHANGE - MADDOX STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	CUNNINGHAM STATION - MADDOX STATION 115KV CKT 1	159.95	159.95	0.10691	100.2349	HOBBS INTERCHANGE - MADDOX STATION 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_12	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04532	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_12	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04532	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_12	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11618	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_12	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11618	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_12	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11618	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_12	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11618	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03939	105.2438	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03939	186.1355	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03939	165.9976	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04366	165.272	DBL-THIS-WWR
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03503	164.4236	DBL-THIS-WIC
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03939	164.2503	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04159	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04159	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04159	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04159	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03214	147.0703	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03175	146.0529	P12:230:AEPW:ELKCTY6:SWEETWT6
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03214	141.8886	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03214	141.8877	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03214	141.88	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	117.2691	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04795	112.89	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05269	107.7449	DBL-THIS-WWR
FDNS	06ALL	2	20SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04759	104.1071	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04267	104.0255	DBL-THIS-WIC
FDNS	06ALL	2	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	102.8037	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04795	102.191	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05461	101.6078	DBL-THIS-WWR
FDNS	06ALL	2	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04748	101.4269	G11_051T 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	2	20SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05453	101.2292	DBL-THIS-WWR
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04795	100.9732	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04618	100.4529	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05119	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05119	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04604	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04604	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04434	99.4	DBL-THIS-WIC
FDNS	06ALL	2	20SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03394	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12275	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12275	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10452	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10452	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12275	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12275	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09332	101.4646	DBL-G1114-WW
FDNS	06ALL	2	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09332	99.8	DBL-BVR-G111
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10452	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10452	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07768	96.6	DBL-G1114-WW
FDNS	06ALL	2	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07768	95	DBL-BVR-G111
FDNS	06ALL	2	20L	ASGI_14_12	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10831	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10831	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12699	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12699	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_12	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03204	116.0942	DBL-THIS-WIC
FDNS	06ALL	2	16WP	ASGI_14_12	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03233	104.2502	DBL-THIS-WIC
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04647	106.1534	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04647	106.1521	MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_12	FROM->TO	HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04639	96.3	MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_12	FROM->TO	HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04639	96.3	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04647	95.4	OXY PERMIAN SUB - WEST BENDER SUB 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03263	109.8757	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03263	108.1195	P12:115:LCEC:W56.1.HOBBG.LE-LVN
FDNS	06ALL	2	20SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03258	104.9504	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_12	FROM->TO	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03258	102.9116	P12:115:LCEC:W56.1.HOBBG.LE-LVN
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06921	122.3759	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06909	117.729	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06921	116.9438	BUCKEY TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06909	110.6902	BUCKEY TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.09648	102.6065	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06921	102.4169	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06921	101.7232	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06921	101.72	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06909	98.4	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL	2	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06909	97.6	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06909	97.6	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL	2	17SP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.09648	96.3	BUCKEY TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	20WP	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06852	96.09061	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	17G	ASGI_14_12	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.096	95.85044	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	MILLEN SUB - NORTHEAST HOBBS SUB 115KV CKT 1	141	141	0.04647	96	MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL	2	25SP	ASGI_14_12	FROM->TO	MILLEN SUB - NORTHEAST HOBBS SUB 115KV CKT 1	141	141	0.04647	96	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	ASGI_14_12	-	Non-Converged Contingency	1532	1793	0.08809	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	ASGI_14_12	-	Non-Converged Contingency	1532	1793	0.08809	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	06ALL	2	20SP	ASGI_14_12	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.18616	109.0354	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_12	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.18616	109.0354	PLANT X STATION - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20SP	ASGI_14_12	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.18801	109.8364	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	2	20SP	ASGI_14_12	TO->FROM	PLANT X STATION - TOLK STATION WEST 230KV CKT 1	478.05	501.95	0.18801	109.8364	PLANT X STATION - TOLK STATION EAST 230KV CKT 2
FDNS	06ALL	2	20L	ASGI_14_12	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12804	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12804	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12804	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	ASGI_14_12	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12804	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12795	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.12795	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14998	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.14998	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_12	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03203	100.1083	DBL-THIS-WIC
FDNS	06ALL	3	17G	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03203	140.9559	DBL-THIS-WIC
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03188	134.8709	DBL-THIS-WIC
FDNS	06ALL	3	16WP	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03232	127.0277	DBL-THIS-WIC
FDNS	06ALL	3	17SP	ASGI_14_12	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03527	109.009	DBL-THIS-WIC
FDNS	06ALL	3	25SP	ASGI_14_12	FROM->TO	CUNNINGHAM STATION - MADDOX STATION 115KV CKT 1	159.95	159.95	0.10693	100.2584	HOBBS INTERCHANGE - MADDOX STATION 115KV CKT 1
FDNS	06ALL	3	25SP	ASGI_14_12	FROM->TO	CUNNINGHAM STATION - MADDOX STATION 115KV CKT 1	159.95	159.95	0.10693	100.2584	HOBBS INTERCHANGE - MADDOX STATION 115KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_12	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04561	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_12	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.04561	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_12	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11609	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_12	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11609	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_12	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11609	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_12	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11609	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03938	105.2423	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	186.1329	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	165.9942	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04366	165.2778	DBL-THIS-WWR
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03502	164.4221	DBL-THIS-WIC
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03938	164.2471	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04161	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04161	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04161	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04161	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03213	147.0576	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03173	146.0418	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03213	141.8708	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03213	141.8694	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03213	141.8622	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.02961	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04747	117.3183	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	112.8878	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0527	107.7803	DBL-THIS-WWR
FDNS	06ALL	3	20SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04758	104.0995	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04268	104.028	DBL-THIS-WIC
FDNS	06ALL	3	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04747	102.8036	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	102.1886	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05461	101.6129	DBL-THIS-WWR
FDNS	06ALL	3	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04747	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05453	101.2315	DBL-THIS-WWR
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04794	100.9709	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	17SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04618	100.4515	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05121	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05121	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04608	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04608	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04434	99.4	DBL-THIS-WIC
FDNS	06ALL	3	20SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03394	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	ASGI_14_12	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.8	GEN520998 1-MORLND3
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12266	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12266	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10445	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10445	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12266	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12266	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09316	101.3496	DBL-G1114-WW
FDNS	06ALL	3	20WP	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09316	99.7	DBL-BVR-G111
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10445	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10445	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.07755	96.5	DBL-G1114-WW
FDNS	06ALL	3	20L	ASGI_14_12	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10823	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	ASGI_14_12	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.10823	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_12	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.1269	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	ASGI_14_12	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.1269	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	ASGI_14_12	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03203	116.0839	DBL-THIS-WIC

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL		3	16WP	ASGI_14_12	FROM->TO HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03232	104.235	DBL-THIS-WIC
FDNS	06ALL		3	25SP	ASGI_14_12	FROM->TO HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04651	106.1907	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_12	FROM->TO HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04651	106.1894	MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL		3	20SP	ASGI_14_12	FROM->TO HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04643	96.3	MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL		3	20SP	ASGI_14_12	FROM->TO HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04643	96.3	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_12	FROM->TO HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1	143	157	0.04651	95.4	OXY PERMIAN SUB - WEST BENDER SUB 115KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_12	FROM->TO LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03266	109.9214	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_12	FROM->TO LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03266	108.1659	P12:115:LCEC:W56.1.HOBGG.LE-LVN
FDNS	06ALL		3	20SP	ASGI_14_12	FROM->TO LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03261	105.0363	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1
FDNS	06ALL		3	20SP	ASGI_14_12	FROM->TO LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1	84	84	0.03261	102.9986	P12:115:LCEC:W56.1.HOBGG.LE-LVN
FDNS	06ALL		3	25SP	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06928	122.4186	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL		3	20SP	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06916	117.8156	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06928	116.9889	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL		3	20SP	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06916	110.7802	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL		3	17SP	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.09662	102.7374	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06928	102.4656	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL		3	25SP	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06928	101.7722	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06928	101.7691	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL		3	20SP	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06916	98.5	P12:115:SPS:V98.1.CUNN.LE-SNANDR
FDNS	06ALL		3	20SP	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06916	97.7	LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1
FDNS	06ALL		3	20SP	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06916	97.7	LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1
FDNS	06ALL		3	17SP	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.09662	96.4	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL		3	20WP	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.06858	96.10957	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL		3	17G	ASGI_14_12	FROM->TO LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.09614	95.95579	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_12	FROM->TO MILLEN SUB - NORTHEAST HOBBS SUB 115KV CKT 1	141	141	0.04651	96	MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1
FDNS	06ALL		3	25SP	ASGI_14_12	FROM->TO MILLEN SUB - NORTHEAST HOBBS SUB 115KV CKT 1	141	141	0.04651	96	OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL		3	16WP	ASGI_14_12	- Non-Converged Contingency	1532	1793	0.08806	-	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNSLock-Iteration limit exceeded	06ALL		3	16WP	ASGI_14_12	- Non-Converged Contingency	1532	1793	0.08806	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL		3	16WP	ASGI_14_12	- Non-Converged Contingency	1532	1793	0.08806	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL		3	16WP	ASGI_14_12	- Non-Converged Contingency	1532	1793	0.08806	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL		3	20L	ASGI_14_12	FROM->TO STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12795	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	ASGI_14_12	FROM->TO STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.12795	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	ASGI_14_12	FROM->TO STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12795	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	ASGI_14_12	FROM->TO STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.12795	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0		0	17SP	ASGI_14_14_SP	FROM->TO STILLWATER KINZIE 138/69KV TRANSFORMER CKT 1	72	72	0.03157	114.8168	2WILLIAMS 69.000 - STILLWTR2 69.000 69KV CKT 1
FDNS	0		0	17SP	ASGI_14_14_SP	FROM->TO STILLWATER KINZIE 138/69KV TRANSFORMER CKT 1	72	72	0.03157	114.8168	2WILLIAMS 69.000 - STILLWTR2 69.000 69KV CKT 1
FDNSLock-Iteration limit exceeded	0		0	16WP	ASGI_14_14_WP	GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04197	46.16103	BASE CASE
FDNS	0		0	16WP	G13_010	TO->FROM CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03761	126.1226	DBL-THIS-WIC
FDNS	0		0	20WP	G13_010	TO->FROM CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.04236	122.6331	DBL-THIS-WIC
FDNS	0		0	20WP	G13_010	TO->FROM FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04156	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	0		0	16WP	G13_010	FROM->TO HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03761	103.5447	DBL-THIS-WIC
FDNS	06ALL		0	20L	G13_027	TO->FROM CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13336	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20L	G13_027	TO->FROM CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13336	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20WP	G13_027	TO->FROM CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1554	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20WP	G13_027	TO->FROM CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1554	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	17G	G13_027	FROM->TO CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.0322	100.1052	DBL-THIS-WIC
FDNS	06ALL		0	17G	G13_027	TO->FROM CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0322	140.9516	DBL-THIS-WIC
FDNS	06ALL		0	20WP	G13_027	TO->FROM CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03242	134.8645	DBL-THIS-WIC
FDNS	06ALL		0	16WP	G13_027	TO->FROM CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03249	127.0216	DBL-THIS-WIC
FDNS	0		0	16WP	G13_027	TO->FROM CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0314	126.1226	DBL-THIS-WIC
FDNS	0		0	20WP	G13_027	TO->FROM CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03254	122.6331	DBL-THIS-WIC
FDNS	06ALL		0	17SP	G13_027	TO->FROM CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03548	109.019	DBL-THIS-WIC
FDNS	06ALL		0	20SP	G13_027	FROM->TO CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.0523	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL		0	20SP	G13_027	FROM->TO CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.0523	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL		0	17G	G13_027	FROM->TO ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11733	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	17G	G13_027	FROM->TO ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11733	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	17G	G13_027	FROM->TO ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11733	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	17G	G13_027	FROM->TO ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11733	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20L	G13_027	FROM->TO FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03971	105.2394	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL		0	20L	G13_027	TO->FROM FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03971	186.1277	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL		0	20L	G13_027	TO->FROM FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03971	165.9905	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL		0	20L	G13_027	TO->FROM FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04358	165.2765	DBL-THIS-WWR
FDNS	06ALL		0	20L	G13_027	TO->FROM FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03521	164.4193	DBL-THIS-WIC

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03971	164.2432	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04015	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04015	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04015	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04015	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03303	147.0377	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03253	146.0235	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03303	141.8598	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03303	141.8584	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03303	141.8512	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	117.2744	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04827	112.8812	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05262	107.7477	DBL-THIS-WWR
FDNS	06ALL	0	20SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04791	104.1063	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.0347	DBL-THIS-WIC
FDNS	06ALL	0	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	102.8059	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	0	0	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04857	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04827	102.1815	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05453	101.6082	DBL-THIS-WWR
FDNS	06ALL	0	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	101.4282	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05446	101.2316	DBL-THIS-WWR
FDNS	06ALL	0	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04827	100.9636	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	17SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04623	100.4498	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04975	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04975	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0456	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0456	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04452	99.4	DBL-THIS-WIC
FDNS	06ALL	0	20SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03388	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNSLock-Iteration limit exceeded	0	0	16WP	G13_027		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04903	46.16103	BASE CASE
FDNS	06ALL	0	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.1271	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.1271	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10887	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10887	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.1271	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.1271	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10332	101.2759	DBL-G1114-WW
FDNS	06ALL	0	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10332	99.7	DBL-BVR-G111
FDNS	0	0	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12777	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12777	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10887	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10887	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08771	96.4	DBL-G1114-WW
FDNS	06ALL	0	20L	G13_027	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11281	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11281	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G13_027	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13148	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G13_027	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13148	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G13_027	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.0322	116.0807	DBL-THIS-WIC
FDNS	06ALL	0	16WP	G13_027	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03249	104.2303	DBL-THIS-WIC
FDNS	0	0	16WP	G13_027	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.0314	103.5447	DBL-THIS-WIC
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G13_027	-	Non-Converged Contingency	1532	1793	0.0885	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G13_027	-	Non-Converged Contingency	1532	1793	0.0885	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G13_027	-	Non-Converged Contingency	1532	1793	0.0885	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	0	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07065	102.7651	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07065	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07065	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07065	102.7429	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07065	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07065	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 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	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07065	99.1	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07065	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20L	G13_027	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13336	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13336	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13336	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G13_027	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13336	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13342	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13342	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15547	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15547	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G13_027	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03223	100.1185	DBL-THIS-WIC
FDNS	06ALL	2	17G	G13_027	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03223	140.9693	DBL-THIS-WIC
FDNS	06ALL	2	20WP	G13_027	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03243	134.8883	DBL-THIS-WIC
FDNS	06ALL	2	16WP	G13_027	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03251	127.0475	DBL-THIS-WIC
FDNS	06ALL	2	17SP	G13_027	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03551	109.0293	DBL-THIS-WIC
FDNS	06ALL	2	20SP	G13_027	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.05234	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	20SP	G13_027	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.05234	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	17G	G13_027	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11744	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G13_027	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11744	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G13_027	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11744	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G13_027	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11744	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03971	105.2438	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03971	186.1355	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03971	165.9976	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04358	165.272	DBL-THIS-WWR
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03521	164.4236	DBL-THIS-WIC
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03971	164.2503	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04013	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04013	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04013	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04013	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03305	147.0703	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03255	146.0529	P12:230:AEPW:ELKCTY6:SWEETWT6
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03305	141.8886	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03305	141.8877	P12:230:AEPW:SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03305	141.88	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	117.2691	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04828	112.89	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0526	107.7449	DBL-THIS-WWR
FDNS	06ALL	2	20SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04791	104.1071	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.0255	DBL-THIS-WIC
FDNS	06ALL	2	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	102.8037	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04828	102.191	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05453	101.6078	DBL-THIS-WWR
FDNS	06ALL	2	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05445	101.2292	DBL-THIS-WWR
FDNS	06ALL	2	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04828	100.9732	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	17SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04624	100.4529	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04973	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04973	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04555	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04555	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04453	99.4	DBL-THIS-WIC
FDNS	06ALL	2	20SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03388	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNS	06ALL	2	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12715	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12715	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10892	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10892	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12715	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12715	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10357	101.4646	DBL-G1114-WW
FDNS	06ALL	2	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10357	99.8	DBL-BVR-G111
FDNS	06ALL	2	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10892	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10892	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08794	96.6	DBL-G1114-WW
FDNS	06ALL	2	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08794	95	DBL-BVR-G111
FDNS	06ALL	2	20L	G13_027	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11286	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11286	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13154	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G13_027	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13154	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G13_027	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03223	116.0942	DBL-THIS-WIC
FDNS	06ALL	2	16WP	G13_027	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03251	104.2502	DBL-THIS-WIC
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	G13_027	-	Non-Converged Contingency	1532	1793	0.08856	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	G13_027	-	Non-Converged Contingency	1532	1793	0.08856	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	06ALL	2	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07061	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07061	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07061	102.7735	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07061	102.7514	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07061	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07061	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07061	99.1	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.07061	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20L	G13_027	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13342	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13342	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13342	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G13_027	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13342	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13323	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13323	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15526	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15526	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G13_027	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03221	100.1083	DBL-THIS-WIC
FDNS	06ALL	3	17G	G13_027	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03221	140.9559	DBL-THIS-WIC
FDNS	06ALL	3	20WP	G13_027	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03241	134.8709	DBL-THIS-WIC
FDNS	06ALL	3	16WP	G13_027	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0325	127.0277	DBL-THIS-WIC
FDNS	06ALL	3	17SP	G13_027	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03549	109.009	DBL-THIS-WIC
FDNS	06ALL	3	20SP	G13_027	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.05305	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	20SP	G13_027	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.05305	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	17G	G13_027	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G13_027	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G13_027	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G13_027	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.0397	105.2423	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0397	186.1329	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0397	165.9942	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04358	165.2778	DBL-THIS-WWR
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03521	164.4221	DBL-THIS-WIC
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0397	164.2471	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04018	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04018	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04018	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04018	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03302	147.0576	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03252	146.0418	P12:230:AEPW:ELKCTY6:SWEETWT6
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03302	141.8708	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03302	141.8694	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03302	141.8622	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	20L	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	117.3183	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04826	112.8878	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05261	107.7803	DBL-THIS-WWR
FDNS	06ALL	3	20SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0479	104.0995	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.028	DBL-THIS-WIC
FDNS	06ALL	3	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	102.8036	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04826	102.1886	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05453	101.6129	DBL-THIS-WWR
FDNS	06ALL	3	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	101.4269	G11_051T 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	3	20SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05445	101.2315	DBL-THIS-WWR
FDNS	06ALL	3	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04826	100.9709	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	17SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04623	100.4515	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04979	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04979	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04561	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04561	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04452	99.4	DBL-THIS-WIC
FDNS	06ALL	3	20SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03388	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	G13_027	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.8	GEN520998 1-MORLND3
FDNS	06ALL	3	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12698	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12698	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10877	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10877	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12698	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12698	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10322	101.3496	DBL-G1114-WW
FDNS	06ALL	3	20WP	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10322	99.7	DBL-BVR-G111
FDNS	06ALL	3	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10877	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10877	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08761	96.5	DBL-G1114-WW
FDNS	06ALL	3	20L	G13_027	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.1127	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.1127	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13136	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G13_027	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13136	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G13_027	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03221	116.0839	DBL-THIS-WIC
FDNS	06ALL	3	16WP	G13_027	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.0325	104.235	DBL-THIS-WIC
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G13_027	-	Non-Converged Contingency	1532	1793	0.08851	-	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G13_027	-	Non-Converged Contingency	1532	1793	0.08851	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G13_027	-	Non-Converged Contingency	1532	1793	0.08851	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G13_027	-	Non-Converged Contingency	1532	1793	0.08851	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	3	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06774	101.4077	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	3	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06774	101.3877	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06774	101.3877	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06774	101.3877	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	3	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06774	97.8	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	3	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06774	97.8	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06774	97.8	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	25SP	G13_027	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06774	97.8	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	3	20L	G13_027	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13323	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13323	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13323	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G13_027	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13323	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17SP	G13_027	FROM->TO	YOAKUM COUNTY INTERCHANGE (PENN C010585) 230/115/13.2KV TRANSFORMER CKT 2	150	150	0.02969	99.7	YOAKUM COUNTY INTERCHANGE (GE M100899) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	17SP	G13_027	FROM->TO	YOAKUM COUNTY INTERCHANGE (PENN C010585) 230/115/13.2KV TRANSFORMER CKT 2	150	150	0.02969	99.7	YOAKUM COUNTY INTERCHANGE (GE M100899) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	17SP	G13_027	FROM->TO	YOAKUM COUNTY INTERCHANGE (PENN C010585) 230/115/13.2KV TRANSFORMER CKT 2	150	150	0.02969	95.8	YOAKUM COUNTY INTERCHANGE (GE M100899) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	17SP	G13_027	FROM->TO	YOAKUM COUNTY INTERCHANGE (PENN C010585) 230/115/13.2KV TRANSFORMER CKT 2	150	150	0.02969	95.8	YOAKUM COUNTY INTERCHANGE (GE M100899) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07706	106.9445	G14-057T 345.00 - SUNNYSIDE 345KV CKT 1
FDNS	0	0	16WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07723	104.642	G14-057T 345.00 - SUNNYSIDE 345KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07706	104.6285	G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	0	0	16WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07723	102.3249	G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.0751	100	CIMARRON - MINCO 345KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07357	99.8	ANADARKO - GEORGIA 138KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07372	99.6	P12:138:WFEC:MSL02
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07357	99	FLETCHER - GEORGIA 138KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07457	98.9	COMANCHE - LOCO 138KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.0745	98.2	ANADARKO - POCASSETT 138KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.0745	97.6	POCASSETT - TUTTLE 138KV CKT 1
FDNS	0	0	16WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07361	97.1	ANADARKO - GEORGIA 138KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07068	97.1	P12:138:OKGE:3TERM21

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	0	0	16WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07376	97	P12:138:WFEC:MSL02
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07354	96.8	EMPIRE - FLETCHER 138KV CKT 1
FDNS	0	0	16WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07461	96.3	COMANCHE - LOCO 138KV CKT 1
FDNS	0	0	16WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07361	96.3	FLETCHER - GEORGIA 138KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07354	96.2	COMANCHE - EMPIRE 138KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.0745	96	BRIDGEGR 138.00 - TUTTLE 138KV CKT 1
FDNS	0	0	16WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07455	95.5	ANADARKO - POCASSETT 138KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07285	95.3	BASE CASE
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.07127	95.1	FRANKLIN SW - MIDWEST TAP 138KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.0751	95	GRACEMONT - MINCO 345KV CKT 1
FDNSLock-Iteration limit exceeded	0	0	16WP	G14_020		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04346	46.16103	BASE CASE
FDNS	0	0	20WP	G14_020	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.07706	103.9597	G14-057T 345.00 - SUNNYSIDE 345KV CKT 1
FDNS	0	0	16WP	G14_020	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.07723	101.6708	G14-057T 345.00 - SUNNYSIDE 345KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.07706	101.6466	G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	0	0	16WP	G14_020	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.07723	99.4	G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.0751	97.1	CIMARRON - MINCO 345KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.07357	96.8	ANADARKO - GEORGIA 138KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.07372	96.6	P12:138:WFEC:MSL02
FDNS	0	0	20WP	G14_020	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.07357	96	FLETCHER - GEORGIA 138KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.07457	95.9	COMANCHE - LOCO 138KV CKT 1
FDNS	0	0	20WP	G14_020	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.0745	95.2	ANADARKO - POCASSETT 138KV CKT 1
FDNS	0	0	25SP	G14_020	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.02952	110.3366	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G14_020	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.02952	110.3366	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G14_020	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.02952	108.6036	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G14_020	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.02952	108.6036	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G14_021	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	259	0.03183	97.9	P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY
FDNS	0	0	25SP	G14_021	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	259	0.03231	97.3	GRAND AVENUE WEST - NORTHEAST 161KV CKT 1
FDNS	06ALL	0	25SP	G14_021	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	259	0.03184	96	P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY
FDNS	06ALL	0	25SP	G14_021	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	259	0.03232	95.3	GRAND AVENUE WEST - NORTHEAST 161KV CKT 1
FDNS	06ALL	2	25SP	G14_021	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	259	0.03184	96	P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY
FDNS	06ALL	2	25SP	G14_021	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	259	0.03232	95.3	GRAND AVENUE WEST - NORTHEAST 161KV CKT 1
FDNS	06ALL	3	25SP	G14_021	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	259	0.03184	96	P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY
FDNS	06ALL	3	25SP	G14_021	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	259	0.03232	95.3	GRAND AVENUE WEST - NORTHEAST 161KV CKT 1
FDNS	0	0	16WP	G14_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03216	126.1226	DBL-THIS-WIC
FDNS	0	0	20WP	G14_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03649	122.6331	DBL-THIS-WIC
FDNS	0	0	20WP	G14_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.03975	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNSLock-Iteration limit exceeded	0	0	16WP	G14_025		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.0337	46.16103	BASE CASE
FDNS	0	0	16WP	G14_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03216	103.5447	DBL-THIS-WIC
FDNS	0	0	25SP	G14_026	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	318.7	350.57	0.03195	104.1552	GEN525562 1-TOLK GEN #2 24 KV
FDNS	0	0	25SP	G14_026	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	318.7	350.57	0.03195	100.3626	GEN525561 1-TOLK GEN #1 24 KV
FDNS	0	0	25SP	G14_026	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	318.7	350.57	0.04092	97.9	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	0	0	16WP	G14_026	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.04293	126.1226	DBL-THIS-WIC
FDNS	0	0	20WP	G14_026	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.04668	122.6331	DBL-THIS-WIC
FDNS	0	0	20WP	G14_026	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.08655	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNSLock-Iteration limit exceeded	0	0	16WP	G14_026		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.05185	46.16103	BASE CASE
FDNS	0	0	20WP	G14_026	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.05421	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	G14_026	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.05421	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	25SP	G14_026	FROM->TO	Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1	159.35	159.95	0.03057	99.3	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	0	0	25SP	G14_026	FROM->TO	Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1	159.35	159.95	0.03057	99.3	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	0	0	16WP	G14_026	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.04293	103.5447	DBL-THIS-WIC
FDNS	06ALL	0	20L	G14_033	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1316	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1316	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15365	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15365	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_033	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03218	100.1052	DBL-THIS-WIC
FDNS	06ALL	0	17G	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03218	140.9516	DBL-THIS-WIC
FDNS	06ALL	0	20WP	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03224	134.8645	DBL-THIS-WIC
FDNS	06ALL	0	16WP	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03247	127.0216	DBL-THIS-WIC
FDNS	0	0	16WP	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03138	126.1226	DBL-THIS-WIC
FDNS	0	0	20WP	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03236	122.6331	DBL-THIS-WIC
FDNS	06ALL	0	17SP	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03545	109.019	DBL-THIS-WIC
FDNS	06ALL	0	20SP	G14_033	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06762	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	0	20SP	G14_033	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06762	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	0	25SP	G14_033	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14248	97.6	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	0	25SP	G14_033	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14248	96.9	EDDY 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	17G	G14_033	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_033	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_033	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_033	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.0396	105.2394	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	186.1277	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	165.9905	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0436	165.2765	DBL-THIS-WWR
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03515	164.4193	DBL-THIS-WIC
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	164.2432	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	147.0377	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03227	146.0235	P12:230:AEPW:ELKCTY6:SWEETWT6
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8598	STATELINE INTERCHANGE - STLN-DEMAR6 230KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8584	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8512	STLN-DEMAR6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	117.2744	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	112.8812	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05263	107.7477	DBL-THIS-WWR
FDNS	06ALL	0	20SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0478	104.1063	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.0347	DBL-THIS-WIC
FDNS	06ALL	0	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	102.8059	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	0	0	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04846	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	102.1815	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05456	101.6082	DBL-THIS-WWR
FDNS	06ALL	0	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	101.4282	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05448	101.2316	DBL-THIS-WWR
FDNS	06ALL	0	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	100.9636	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	17SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04622	100.4498	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05023	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05023	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04565	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04565	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04446	99.4	DBL-THIS-WIC
FDNS	06ALL	0	20SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0339	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNSLock-Iteration limit exceeded	0	0	16WP	G14_033		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04903	46.16103	BASE CASE
FDNS	06ALL	0	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12565	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12565	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10742	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10742	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12565	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12565	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09995	101.2759	DBL-G1114-WW
FDNS	06ALL	0	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09995	99.7	DBL-BVR-G111
FDNS	0	0	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12632	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12632	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10742	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10742	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08434	96.4	DBL-G1114-WW
FDNS	06ALL	0	20L	G14_033	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11132	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11132	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_033	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_033	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03218	116.0807	DBL-THIS-WIC
FDNS	06ALL	0	16WP	G14_033	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03247	104.2303	DBL-THIS-WIC
FDNS	0	0	16WP	G14_033	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03138	103.5447	DBL-THIS-WIC
FDNS	0	0	17SP	G14_033	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04216	104.395	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	17SP	G14_033	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04227	102.608	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	0	0	17SP	G14_033	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04216	97	BUCKEYE TAP - LE-TXACO_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	17SP	G14_033	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04227	96.3	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	17G	G14_033	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0419	95.85363	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G14_033	-	Non-Converged Contingency	1532	1793	0.08845	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G14_033	-	Non-Converged Contingency	1532	1793	0.08845	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G14_033	-	Non-Converged Contingency	1532	1793	0.08845	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	0	20L	G14_033	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.05419	110.0851	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	17G	G14_033	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.03976	105.9289	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	17SP	G14_033	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.05327	97	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	20SP	G14_033	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.07864	96.8	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	102.7651	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	99.1	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	99.1	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20L	G14_033	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.1316	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.1316	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.1316	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.1316	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_033	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.16792	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	G14_033	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.16792	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	G14_033	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.16792	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	G14_033	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.16792	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	2	20L	G14_033	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13163	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13163	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15368	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15368	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_033	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.0322	100.1185	DBL-THIS-WIC
FDNS	06ALL	2	17G	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0322	140.9693	DBL-THIS-WIC
FDNS	06ALL	2	20WP	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03225	134.8883	DBL-THIS-WIC
FDNS	06ALL	2	16WP	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03249	127.0475	DBL-THIS-WIC
FDNS	06ALL	2	17SP	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03548	109.0293	DBL-THIS-WIC
FDNS	06ALL	2	20SP	G14_033	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06765	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	20SP	G14_033	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06765	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	25SP	G14_033	FROM->TO	EDDY_NORTH 6230.00 (WAIK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14263	97.6	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	2	25SP	G14_033	FROM->TO	EDDY_NORTH 6230.00 (WAIK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14263	96.8	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	2	17G	G14_033	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_033	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_033	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_033	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.0396	105.2438	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	186.1355	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	165.9976	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0436	165.272	DBL-THIS-WWR
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03515	164.4236	DBL-THIS-WIC
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	164.2503	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03275	147.0703	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03228	146.0529	P12:230:AEPW:ELKCTY6:SWEETWT6
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03275	141.8886	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03275	141.8877	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03275	141.88	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	117.2691	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04817	112.89	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05261	107.7449	DBL-THIS-WWR
FDNS	06ALL	2	20SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0478	104.1071	MATHWSN7 345.00 - TATONGA7 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	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.0255	DBL-THIS-WIC
FDNS	06ALL	2	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	102.8037	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04817	102.191	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05456	101.6078	DBL-THIS-WWR
FDNS	06ALL	2	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05448	101.2292	DBL-THIS-WWR
FDNS	06ALL	2	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04817	100.9732	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	17SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04623	100.4529	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05022	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05022	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04561	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04561	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04446	99.4	DBL-THIS-WIC
FDNS	06ALL	2	20SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0339	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNS	06ALL	2	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12568	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12568	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10745	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10745	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12568	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12568	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10015	101.4646	DBL-G1114-WW
FDNS	06ALL	2	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10015	99.8	DBL-BVR-G111
FDNS	06ALL	2	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10745	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10745	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08452	96.6	DBL-G1114-WW
FDNS	06ALL	2	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08452	95	DBL-BVR-G111
FDNS	06ALL	2	20L	G14_033	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11135	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11135	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13003	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_033	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13003	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_033	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.0322	116.0942	DBL-THIS-WIC
FDNS	06ALL	2	16WP	G14_033	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03249	104.2502	DBL-THIS-WIC
FDNS	06ALL	2	17SP	G14_033	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04226	102.6065	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	17SP	G14_033	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04226	96.3	BUCKEY TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	17G	G14_033	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0419	95.85044	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	G14_033	-	Non-Converged Contingency	1532	1793	0.08851	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	G14_033	-	Non-Converged Contingency	1532	1793	0.08851	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	06ALL	2	20L	G14_033	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.05436	110.2593	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	17G	G14_033	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.04008	105.9841	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	17SP	G14_033	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.05358	97	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	20SP	G14_033	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.07885	96.9	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	102.7735	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	102.7514	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	99.1	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20L	G14_033	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13163	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13163	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13163	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_033	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13163	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13149	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13149	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15352	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15352	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_033	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03219	100.1083	DBL-THIS-WIC
FDNS	06ALL	3	17G	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03219	140.9559	DBL-THIS-WIC
FDNS	06ALL	3	20WP	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03223	134.8709	DBL-THIS-WIC
FDNS	06ALL	3	16WP	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03248	127.0277	DBL-THIS-WIC
FDNS	06ALL	3	17SP	G14_033	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03546	109.009	DBL-THIS-WIC
FDNS	06ALL	3	20SP	G14_033	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06816	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	20SP	G14_033	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06816	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	25SP	G14_033	FROM->TO	EDDY_NORTH 6230.00 (WAK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14365	98	EDDY 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	3	25SP	G14_033	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14365	97.2	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	3	17G	G14_033	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_033	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_033	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_033	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.0396	105.2423	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	186.1329	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	165.9942	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0436	165.2778	DBL-THIS-WWR
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03515	164.4221	DBL-THIS-WIC
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	164.2471	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04065	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04065	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04065	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04065	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	147.0576	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03226	146.0418	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8708	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8694	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8622	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	20L	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	117.3183	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	112.8878	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05262	107.7803	DBL-THIS-WWR
FDNS	06ALL	3	20SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04779	104.0995	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.028	DBL-THIS-WIC
FDNS	06ALL	3	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	102.8036	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	102.1886	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05456	101.6129	DBL-THIS-WWR
FDNS	06ALL	3	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05448	101.2315	DBL-THIS-WWR
FDNS	06ALL	3	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	100.9709	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	17SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04622	100.4515	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05026	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05026	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04565	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04565	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04446	99.4	DBL-THIS-WIC
FDNS	06ALL	3	20SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0339	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	G14_033	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.8	GEN520998 1-MORLND3
FDNS	06ALL	3	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12555	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12555	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10734	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10734	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12555	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12555	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.0999	101.3496	DBL-G1114-WW
FDNS	06ALL	3	20WP	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.0999	99.7	DBL-BVR-G111
FDNS	06ALL	3	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10734	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10734	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08428	96.5	DBL-G1114-WW
FDNS	06ALL	3	20L	G14_033	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11123	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_033	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11123	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12989	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_033	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12989	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_033	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03219	116.0839	DBL-THIS-WIC
FDNS	06ALL	3	16WP	G14_033	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03248	104.235	DBL-THIS-WIC
FDNS	06ALL	3	17SP	G14_033	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04245	102.7374	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	17SP	G14_033	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04245	96.4	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	3	17G	G14_033	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04209	95.95579	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G14_033	-	Non-Converged Contingency	1532	1793	0.08847	-	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G14_033	-	Non-Converged Contingency	1532	1793	0.08847	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Iteration limit exceeded	06ALL		3 16WP	G14_033	-	Non-Converged Contingency	1532	1793	0.08847	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL		3 16WP	G14_033	-	Non-Converged Contingency	1532	1793	0.08847	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL		3 25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	101.4077	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL		3 25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	101.3877	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL		3 25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	101.3877	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL		3 25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	101.3877	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL		3 25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	97.8	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL		3 25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	97.8	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL		3 25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	97.8	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL		3 25SP	G14_033	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	97.8	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL		3 20L	G14_033	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13149	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3 20L	G14_033	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13149	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3 20L	G14_033	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13149	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3 20L	G14_033	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13149	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1316	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1316	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0 20W	G14_034	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15365	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0 20W	G14_034	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15365	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0 17G	G14_034	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03218	100.1052	DBL-THIS-WIC
FDNS	06ALL		0 17G	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03218	140.9516	DBL-THIS-WIC
FDNS	06ALL		0 20W	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03224	134.8645	DBL-THIS-WIC
FDNS	06ALL		0 16WP	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03247	127.0216	DBL-THIS-WIC
FDNS	0		0 16WP	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03138	126.1226	DBL-THIS-WIC
FDNS	0		0 20W	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03236	122.6331	DBL-THIS-WIC
FDNS	06ALL		0 17SP	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03545	109.019	DBL-THIS-WIC
FDNS	06ALL		0 20SP	G14_034	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06762	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL		0 20SP	G14_034	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06762	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL		0 25SP	G14_034	FROM->TO	EDDY_NORTH 6230.00 (WAIK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14248	97.6	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL		0 25SP	G14_034	FROM->TO	EDDY_NORTH 6230.00 (WAIK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14248	96.9	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL		0 17G	G14_034	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0 17G	G14_034	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0 17G	G14_034	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0 17G	G14_034	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0 20L	G14_034	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.0396	105.2394	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	186.1277	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	165.9905	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0436	165.2765	DBL-THIS-WWR
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03515	164.4193	DBL-THIS-WIC
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	164.2432	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	147.0377	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03227	146.0235	P12:230:AEPW:ELKCTY6:SWEETWT6
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8598	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8584	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8512	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL		0 20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL		0 17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	117.2744	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL		0 20W	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	112.8812	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL		0 17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05263	107.7477	DBL-THIS-WWR
FDNS	06ALL		0 20SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0478	104.1063	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL		0 17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.0347	DBL-THIS-WIC
FDNS	06ALL		0 17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	102.8059	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	0		0 20W	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04846	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL		0 20W	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	102.1815	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL		0 20W	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05456	101.6082	DBL-THIS-WWR
FDNS	06ALL		0 17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	101.4282	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL		0 20SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05448	101.2316	DBL-THIS-WWR
FDNS	06ALL		0 20W	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	100.9636	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL		0 17SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04622	100.4498	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL		0 20W	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05023	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05023	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04565	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04565	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04446	99.4	DBL-THIS-WIC
FDNS	06ALL	0	20SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0339	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNSLock-Iteration limit exceeded	0	0	16WP	G14_034		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04903	46.16103	BASE CASE
FDNS	06ALL	0	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12565	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12565	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10742	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10742	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12565	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12565	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09995	101.2759	DBL-G1114-WW
FDNS	06ALL	0	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09995	99.7	DBL-BVR-G111
FDNS	0	0	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12632	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12632	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10742	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10742	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08434	96.4	DBL-G1114-WW
FDNS	06ALL	0	20L	G14_034	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11132	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_034	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11132	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_034	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_034	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_034	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03218	116.0807	DBL-THIS-WIC
FDNS	06ALL	0	16WP	G14_034	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03247	104.2303	DBL-THIS-WIC
FDNS	0	0	16WP	G14_034	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03138	103.5447	DBL-THIS-WIC
FDNS	0	0	17SP	G14_034	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04216	104.395	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	17SP	G14_034	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04227	102.608	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	0	0	17SP	G14_034	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04216	97	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	17SP	G14_034	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04227	96.3	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	17G	G14_034	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0419	95.85363	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G14_034	-	Non-Converged Contingency	1532	1793	0.08845	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G14_034	-	Non-Converged Contingency	1532	1793	0.08845	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G14_034	-	Non-Converged Contingency	1532	1793	0.08845	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	0	20L	G14_034	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.05419	110.0851	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	17G	G14_034	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.03976	105.9289	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	17SP	G14_034	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.05327	97	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	20SP	G14_034	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.07864	96.8	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	102.7651	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	102.7429	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	99.1	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20L	G14_034	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.1316	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_034	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.1316	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_034	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.1316	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_034	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.1316	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_034	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.16792	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	G14_034	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.16792	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	G14_034	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.16792	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	G14_034	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.16792	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	2	20L	G14_034	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13163	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13163	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15368	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15368	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_034	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.0322	100.1185	DBL-THIS-WIC
FDNS	06ALL	2	17G	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0322	140.9693	DBL-THIS-WIC
FDNS	06ALL	2	20WP	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03225	134.8883	DBL-THIS-WIC
FDNS	06ALL	2	16WP	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03249	127.0475	DBL-THIS-WIC
FDNS	06ALL	2	17SP	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03548	109.0293	DBL-THIS-WIC

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	20SP	G14_034	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06765	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	20SP	G14_034	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06765	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	25SP	G14_034	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14263	97.6	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	2	25SP	G14_034	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14263	96.8	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	2	17G	G14_034	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_034	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_034	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_034	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.0396	105.2438	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	186.1355	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	165.9976	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0436	165.272	DBL-THIS-WWR
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03515	164.4236	DBL-THIS-WIC
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	164.2503	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03275	147.0703	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03228	146.0529	P12:230:AEPW:ELKCTY6:SWEETWT6
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03275	141.8886	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03275	141.8877	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03275	141.88	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	117.2691	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04817	112.89	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05261	107.7449	DBL-THIS-WWR
FDNS	06ALL	2	20SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0478	104.1071	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.0255	DBL-THIS-WIC
FDNS	06ALL	2	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	102.8037	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04817	102.191	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05456	101.6078	DBL-THIS-WWR
FDNS	06ALL	2	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05448	101.2292	DBL-THIS-WWR
FDNS	06ALL	2	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04817	100.9732	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	17SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04623	100.4529	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05022	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05022	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04561	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04561	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04446	99.4	DBL-THIS-WIC
FDNS	06ALL	2	20SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0339	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNS	06ALL	2	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12568	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12568	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10745	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10745	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12568	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12568	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10015	101.4646	DBL-G1114-WW
FDNS	06ALL	2	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10015	99.8	DBL-BVR-G111
FDNS	06ALL	2	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10745	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10745	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08452	96.6	DBL-G1114-WW
FDNS	06ALL	2	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08452	95	DBL-BVR-G111
FDNS	06ALL	2	20L	G14_034	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11135	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11135	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13003	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_034	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13003	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_034	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.0322	116.0942	DBL-THIS-WIC
FDNS	06ALL	2	16WP	G14_034	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03249	104.2502	DBL-THIS-WIC
FDNS	06ALL	2	17SP	G14_034	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04226	102.6065	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	17SP	G14_034	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04226	96.3	BUCKEY TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	17G	G14_034	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0419	95.85044	BUCKEY TAP - CUNNINGHAM STATION 115KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	G14_034	-	Non-Converged Contingency	1532	1793	0.08851	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	G14_034	-	Non-Converged Contingency	1532	1793	0.08851	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	06ALL	2	20L	G14_034	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.05436	110.2593	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	17G	G14_034	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.04008	105.9841	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	17SP	G14_034	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.05358	97	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	20SP	G14_034	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.07885	96.9	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	102.7735	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	102.7514	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	99.1	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20L	G14_034	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13163	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13163	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13163	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_034	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13163	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13149	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13149	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_034	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15352	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_034	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15352	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_034	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03219	100.1083	DBL-THIS-WIC
FDNS	06ALL	3	17G	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03219	140.9559	DBL-THIS-WIC
FDNS	06ALL	3	20WP	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03223	134.8709	DBL-THIS-WIC
FDNS	06ALL	3	16WP	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03248	127.0277	DBL-THIS-WIC
FDNS	06ALL	3	17SP	G14_034	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03546	109.009	DBL-THIS-WIC
FDNS	06ALL	3	20SP	G14_034	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06816	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	20SP	G14_034	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06816	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	25SP	G14_034	FROM->TO	EDDY NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14365	98	EDDY COUNTY INTERCHANGE - EDDY NORTH 6230.00 230KV CKT @1
FDNS	06ALL	3	25SP	G14_034	FROM->TO	EDDY NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14365	97.2	EDDY COUNTY INTERCHANGE - EDDY NORTH 6230.00 230KV CKT @1
FDNS	06ALL	3	17G	G14_034	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_034	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_034	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_034	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_034	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.0396	105.2423	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	186.1329	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	165.9942	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0436	165.2778	DBL-THIS-WWR
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03515	164.4221	DBL-THIS-WIC
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	164.2471	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04065	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04065	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04065	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04065	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	147.0576	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03226	146.0418	P12:230:AEPW:ELKCTY6:SWEETWT6
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8708	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8694	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8622	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	20L	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	117.3183	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	112.8878	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05262	107.7803	DBL-THIS-WWR
FDNS	06ALL	3	20SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04779	104.0995	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.028	DBL-THIS-WIC
FDNS	06ALL	3	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	102.8036	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	102.1886	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05456	101.6129	DBL-THIS-WWR
FDNS	06ALL	3	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05448	101.2315	DBL-THIS-WWR
FDNS	06ALL	3	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	100.9709	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	17SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04622	100.4515	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	06ALL		3	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05026	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05026	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04565	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	17G	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04565	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20WP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04446	99.4	DBL-THIS-WIC
FDNS	06ALL		3	20SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0339	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL		3	20SP	G14_034	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.8	GEN520998 1-MORLND3
FDNS	06ALL		3	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12555	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12555	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10734	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10734	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12555	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL		3	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12555	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL		3	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.0999	101.3496	DBL-G1114-WW
FDNS	06ALL		3	20WP	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.0999	99.7	DBL-BVR-G111
FDNS	06ALL		3	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10734	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL		3	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10734	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL		3	20L	G14_034	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08428	96.5	DBL-G1114-WW
FDNS	06ALL		3	20L	G14_034	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11123	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	G14_034	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11123	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20WP	G14_034	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12989	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20WP	G14_034	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12989	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	17G	G14_034	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03219	116.0839	DBL-THIS-WIC
FDNS	06ALL		3	16WP	G14_034	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03248	104.235	DBL-THIS-WIC
FDNS	06ALL		3	17SP	G14_034	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04245	102.7374	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL		3	17SP	G14_034	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04245	96.4	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL		3	17G	G14_034	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04209	95.95579	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL		3	16WP	G14_034	-	Non-Converged Contingency	1532	1793	0.08847	-	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNSLock-Iteration limit exceeded	06ALL		3	16WP	G14_034	-	Non-Converged Contingency	1532	1793	0.08847	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL		3	16WP	G14_034	-	Non-Converged Contingency	1532	1793	0.08847	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL		3	16WP	G14_034	-	Non-Converged Contingency	1532	1793	0.08847	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL		3	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	101.4077	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL		3	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	101.3877	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL		3	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	101.3877	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL		3	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	101.3877	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL		3	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	97.8	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL		3	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	97.8	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL		3	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	97.8	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL		3	25SP	G14_034	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	97.8	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL		3	20L	G14_034	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13149	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	G14_034	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13149	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	G14_034	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13149	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		3	20L	G14_034	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13149	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20L	G14_035	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1316	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20L	G14_035	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.1316	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20WP	G14_035	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15365	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20WP	G14_035	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15365	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	17G	G14_035	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03218	100.1052	DBL-THIS-WIC
FDNS	06ALL		0	17G	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03218	140.9516	DBL-THIS-WIC
FDNS	06ALL		0	20WP	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03224	134.8645	DBL-THIS-WIC
FDNS	06ALL		0	16WP	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03247	127.0216	DBL-THIS-WIC
FDNS	0		0	16WP	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03138	126.1226	DBL-THIS-WIC
FDNS	0		0	20WP	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03236	122.6331	DBL-THIS-WIC
FDNS	06ALL		0	17SP	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03545	109.019	DBL-THIS-WIC
FDNS	06ALL		0	20SP	G14_035	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06762	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL		0	20SP	G14_035	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06762	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL		0	25SP	G14_035	FROM->TO	EDDY_NORTH 6230.00 (WALK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14248	97.6	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL		0	25SP	G14_035	FROM->TO	EDDY_NORTH 6230.00 (WALK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14248	96.9	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL		0	17G	G14_035	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	17G	G14_035	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	17G	G14_035	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	17G	G14_035	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL		0	20L	G14_035	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.0396	105.2394	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL		0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	186.1277	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	165.9905	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0436	165.2765	DBL-THIS-WWR
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03515	164.4193	DBL-THIS-WIC
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	164.2432	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	147.0377	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03227	146.0235	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8598	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8584	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8512	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	117.2744	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	112.8812	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05263	107.7477	DBL-THIS-WWR
FDNS	06ALL	0	20SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0478	104.1063	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.0347	DBL-THIS-WIC
FDNS	06ALL	0	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	102.8059	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	0	0	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04846	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	102.1815	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05456	101.6082	DBL-THIS-WWR
FDNS	06ALL	0	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	101.4282	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05448	101.2316	DBL-THIS-WWR
FDNS	06ALL	0	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	100.9636	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	17SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04622	100.4498	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05023	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05023	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04565	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04565	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04446	99.4	DBL-THIS-WIC
FDNS	06ALL	0	20SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0339	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNSLock-Iteration limit exceeded	0	0	16WP	G14_035		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04903	46.16103	BASE CASE
FDNS	06ALL	0	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12565	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12565	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10742	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10742	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12565	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12565	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09995	101.2759	DBL-G1114-WW
FDNS	06ALL	0	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.09995	99.7	DBL-BVR-G111
FDNS	0	0	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12632	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12632	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10742	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10742	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08434	96.4	DBL-G1114-WW
FDNS	06ALL	0	20L	G14_035	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11132	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11132	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_035	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_035	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_035	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03218	116.0807	DBL-THIS-WIC
FDNS	06ALL	0	16WP	G14_035	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03247	104.2303	DBL-THIS-WIC
FDNS	0	0	16WP	G14_035	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03138	103.5447	DBL-THIS-WIC
FDNS	0	0	17SP	G14_035	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04216	104.395	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	0	17SP	G14_035	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04227	102.608	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	0	0	17SP	G14_035	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04216	97	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	17SP	G14_035	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04227	96.3	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	0	17G	G14_035	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0419	95.85363	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G14_035	-	Non-Converged Contingency	1532	1793	0.08845	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G14_035	-	Non-Converged Contingency	1532	1793	0.08845	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G14_035	-	Non-Converged Contingency	1532	1793	0.08845	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	0	20L	G14_035	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.05419	110.0851	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	17G	G14_035	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.03976	105.9289	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	17SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.05327	97	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	20SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.07864	96.8	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	102.7651	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	102.7429	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	99.1	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03974	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20L	G14_035	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.1316	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.1316	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.1316	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.1316	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_035	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.16792	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	G14_035	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.16792	99.9	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	G14_035	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.16792	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	0	20L	G14_035	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.16792	99.4	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	06ALL	2	20L	G14_035	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13163	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13163	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15368	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15368	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_035	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.0322	100.1185	DBL-THIS-WIC
FDNS	06ALL	2	17G	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0322	140.9693	DBL-THIS-WIC
FDNS	06ALL	2	20WP	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03225	134.8883	DBL-THIS-WIC
FDNS	06ALL	2	16WP	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03249	127.0475	DBL-THIS-WIC
FDNS	06ALL	2	17SP	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03548	109.0293	DBL-THIS-WIC
FDNS	06ALL	2	20SP	G14_035	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06765	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	20SP	G14_035	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06765	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	25SP	G14_035	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14263	97.6	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	2	25SP	G14_035	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14263	96.8	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	2	17G	G14_035	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_035	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_035	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_035	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1173	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.0396	105.2438	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	186.1355	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	165.9976	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0436	165.272	DBL-THIS-WWR
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03515	164.4236	DBL-THIS-WIC
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	164.2503	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04062	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03275	147.0703	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03228	146.0529	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03275	141.8886	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03275	141.8877	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03275	141.88	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	117.2691	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04817	112.89	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05261	107.7449	DBL-THIS-WWR
FDNS	06ALL	2	20SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0478	104.1071	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.0255	DBL-THIS-WIC
FDNS	06ALL	2	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	102.8037	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04817	102.191	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05456	101.6078	DBL-THIS-WWR
FDNS	06ALL	2	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05448	101.2292	DBL-THIS-WWR

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04817	100.9732	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	17SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04623	100.4529	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05022	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05022	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04561	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04561	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04446	99.4	DBL-THIS-WIC
FDNS	06ALL	2	20SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0339	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNS	06ALL	2	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12568	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12568	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10745	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10745	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12568	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12568	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10015	101.4646	DBL-G1114-WW
FDNS	06ALL	2	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10015	99.8	DBL-BVR-G111
FDNS	06ALL	2	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10745	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10745	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08452	96.6	DBL-G1114-WW
FDNS	06ALL	2	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08452	95	DBL-BVR-G111
FDNS	06ALL	2	20L	G14_035	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11135	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11135	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13003	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_035	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13003	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_035	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.0322	116.0942	DBL-THIS-WIC
FDNS	06ALL	2	16WP	G14_035	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03249	104.2502	DBL-THIS-WIC
FDNS	06ALL	2	17SP	G14_035	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04226	102.6065	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	2	17SP	G14_035	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04226	96.3	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	2	17G	G14_035	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.0419	95.85044	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	G14_035	-	Non-Converged Contingency	1532	1793	0.08851	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	G14_035	-	Non-Converged Contingency	1532	1793	0.08851	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	06ALL	2	20L	G14_035	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.05436	110.2593	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	17G	G14_035	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.04008	105.9841	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	17SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.05358	97	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	20SP	G14_035	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.07885	96.9	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	102.7735	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	102.7514	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	99.1	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03971	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20L	G14_035	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13163	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13163	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13163	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_035	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13163	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13149	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13149	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15352	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15352	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_035	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03219	100.1083	DBL-THIS-WIC
FDNS	06ALL	3	17G	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03219	140.9559	DBL-THIS-WIC
FDNS	06ALL	3	20WP	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03223	134.8709	DBL-THIS-WIC
FDNS	06ALL	3	16WP	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03248	127.0277	DBL-THIS-WIC
FDNS	06ALL	3	17SP	G14_035	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03546	109.009	DBL-THIS-WIC
FDNS	06ALL	3	20SP	G14_035	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06816	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	20SP	G14_035	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.06816	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	25SP	G14_035	FROM->TO	EDDY_NORTH 6230.00 (WALK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14365	98	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	3	25SP	G14_035	FROM->TO	EDDY_NORTH 6230.00 (WALK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.14365	97.2	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	3	17G	G14_035	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_035	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_035	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_035	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11719	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.0396	105.2423	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	186.1329	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	165.9942	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0436	165.2778	DBL-THIS-WWR
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03515	164.4221	DBL-THIS-WIC
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0396	164.2471	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04065	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04065	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04065	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04065	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	147.0576	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03226	146.0418	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8708	STATELINE INTERCHANGE - STLN-DEMAR6 230KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03273	141.8694	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	141.8622	STLN-DEMAR6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	20L	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	117.3183	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	112.8878	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05262	107.7803	DBL-THIS-WWR
FDNS	06ALL	3	20SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04779	104.0995	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.028	DBL-THIS-WIC
FDNS	06ALL	3	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	102.8036	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	102.1886	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05456	101.6129	DBL-THIS-WWR
FDNS	06ALL	3	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04752	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05448	101.2315	DBL-THIS-WWR
FDNS	06ALL	3	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04816	100.9709	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	17SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04622	100.4515	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05026	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05026	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04565	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04565	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04446	99.4	DBL-THIS-WIC
FDNS	06ALL	3	20SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0339	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	G14_035	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.8	GEN520998 1-MORLND3
FDNS	06ALL	3	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12555	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12555	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10734	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10734	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12555	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12555	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.0999	101.3496	DBL-G1114-WW
FDNS	06ALL	3	20WP	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.0999	99.7	DBL-BVR-G111
FDNS	06ALL	3	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10734	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10734	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08428	96.5	DBL-G1114-WW
FDNS	06ALL	3	20L	G14_035	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11123	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11123	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12989	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_035	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.12989	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_035	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03219	116.0839	DBL-THIS-WIC
FDNS	06ALL	3	16WP	G14_035	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03248	104.235	DBL-THIS-WIC
FDNS	06ALL	3	17SP	G14_035	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04245	102.7374	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNS	06ALL	3	17SP	G14_035	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04245	96.4	BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1
FDNS	06ALL	3	17G	G14_035	FROM->TO	LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1	143.4	179.3	0.04209	95.95579	BUCKEYE TAP - CUNNINGHAM STATION 115KV CKT 1
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G14_035	-	Non-Converged Contingency	1532	1793	0.08847	-	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G14_035	-	Non-Converged Contingency	1532	1793	0.08847	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G14_035	-	Non-Converged Contingency	1532	1793	0.08847	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G14_035	-	Non-Converged Contingency	1532	1793	0.08847	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	3	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	101.4077	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	3	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	101.3877	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	101.3877	LAMB COUNTY INTERCHANGE (WH ALM20172) 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	3	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	101.3877	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	3	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	97.8	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	3	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	97.8	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	97.8	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	25SP	G14_035	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.03762	97.8	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	3	20L	G14_035	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13149	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13149	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13149	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_035	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13149	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	16WP	G14_040	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0322	126.1226	DBL-THIS-WIC
FDNS	0	0	20WP	G14_040	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03346	122.6331	DBL-THIS-WIC
FDNS	0	0	20WP	G14_040	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04908	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNSLock-iteration limit exceeded	0	0	16WP	G14_040		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04913	46.16103	BASE CASE
FDNS	0	0	20WP	G14_040	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.13534	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	G14_040	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.13534	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	16WP	G14_040	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.0322	103.5447	DBL-THIS-WIC
FDNS	0	0	16WP	G14_041	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03295	126.1226	DBL-THIS-WIC
FDNS	0	0	20WP	G14_041	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03681	122.6331	DBL-THIS-WIC
FDNS	0	0	20WP	G14_041	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04295	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	0	0	16WP	G14_041	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03295	103.5447	DBL-THIS-WIC
FDNS	06ALL	0	20L	G14_047	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13304	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13304	100.9912	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15508	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15508	98.68529	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_047	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03221	100.1052	DBL-THIS-WIC
FDNS	06ALL	0	17G	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03221	140.9516	DBL-THIS-WIC
FDNS	06ALL	0	20WP	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03239	134.8645	DBL-THIS-WIC
FDNS	06ALL	0	16WP	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0325	127.0216	DBL-THIS-WIC
FDNS	0	0	16WP	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03141	126.1226	DBL-THIS-WIC
FDNS	0	0	20WP	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03251	122.6331	DBL-THIS-WIC
FDNS	06ALL	0	17SP	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03549	109.019	DBL-THIS-WIC
FDNS	06ALL	0	20SP	G14_047	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.05475	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	0	20SP	G14_047	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.05475	98	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	0	25SP	G14_047	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.17361	97.6	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	0	25SP	G14_047	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.17361	96.9	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	0	17G	G14_047	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11738	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_047	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11738	95.76721	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_047	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11738	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_047	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11738	95.42646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03969	105.2394	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03969	186.1277	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03969	165.9905	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04358	165.2765	DBL-THIS-WWR
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0352	164.4193	DBL-THIS-WIC
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03969	164.2432	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04024	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04024	158.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04024	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04024	147.3286	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03298	147.0377	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03248	146.0235	P12:230:AEPW:ELKCTY6:SWEETWT6
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03298	141.8598	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03298	141.8584	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03298	141.8512	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8757	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	0	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	117.2744	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04825	112.8812	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05261	107.7477	DBL-THIS-WWR
FDNS	06ALL	0	20SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04789	104.1063	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.0347	DBL-THIS-WIC
FDNS	06ALL	0	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	102.8059	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	0	0	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04855	102.6604	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04825	102.1815	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05454	101.6082	DBL-THIS-WWR

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	0	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	101.4282	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	20SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05446	101.2316	DBL-THIS-WWR
FDNS	06ALL	0	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04825	100.9636	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	0	17SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04624	100.4498	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04984	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04984	100.0956	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04557	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04557	99.45731	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04451	99.4	DBL-THIS-WIC
FDNS	06ALL	0	20SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03389	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	20SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNSLock-Iteration limit exceeded	0	0	16WP	G14_047		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04903	46.16103	BASE CASE
FDNS	06ALL	0	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12683	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12683	117.839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10861	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10861	111.3816	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12683	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12683	104.4757	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10271	101.2759	DBL-G1114-WW
FDNS	06ALL	0	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10271	99.7	DBL-BVR-G111
FDNS	0	0	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12751	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12751	98.46184	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10861	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10861	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.0871	96.4	DBL-G1114-WW
FDNS	06ALL	0	20L	G14_047	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11254	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11254	104.6239	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13121	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20WP	G14_047	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13121	103.3619	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	17G	G14_047	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03221	116.0807	DBL-THIS-WIC
FDNS	06ALL	0	16WP	G14_047	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.0325	104.2303	DBL-THIS-WIC
FDNS	0	0	16WP	G14_047	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03141	103.5447	DBL-THIS-WIC
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G14_047	-	Non-Converged Contingency	1532	1793	0.08852	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G14_047	-	Non-Converged Contingency	1532	1793	0.08852	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	0	16WP	G14_047	-	Non-Converged Contingency	1532	1793	0.08852	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	0	20SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.04291	96.8	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	0	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06623	102.7651	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06623	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06623	102.765	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06623	102.7429	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06623	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06623	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	0	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06623	99.1	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	0	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06623	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	0	20L	G14_047	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13304	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13304	101.8544	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13304	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	0	20L	G14_047	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13304	109.6421	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13309	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13309	101.0211	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15514	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15514	98.72809	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_047	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03223	100.1185	DBL-THIS-WIC
FDNS	06ALL	2	17G	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03223	140.9693	DBL-THIS-WIC
FDNS	06ALL	2	20WP	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0324	134.8883	DBL-THIS-WIC
FDNS	06ALL	2	16WP	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03252	127.0475	DBL-THIS-WIC
FDNS	06ALL	2	17SP	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03552	109.0293	DBL-THIS-WIC
FDNS	06ALL	2	20SP	G14_047	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.05479	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	20SP	G14_047	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.05479	98.1	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	2	25SP	G14_047	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.17378	97.6	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	2	25SP	G14_047	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.17378	96.8	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	2	17G	G14_047	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1175	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_047	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1175	95.79817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_047	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1175	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	2	17G	G14_047	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.1175	95.45735	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03969	105.2438	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03969	186.1355	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03969	165.9976	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04358	165.272	DBL-THIS-WWR
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0352	164.4236	DBL-THIS-WIC
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03969	164.2503	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04022	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04022	158.0312	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04022	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04022	147.3022	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03299	147.0703	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0325	146.0529	P12:230:AEPW:ELKCTY6:SWEETWT6
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03299	141.8886	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03299	141.8877	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03299	141.88	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8735	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	2	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	117.2691	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04826	112.89	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0526	107.7449	DBL-THIS-WWR
FDNS	06ALL	2	20SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04789	104.1071	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.0255	DBL-THIS-WIC
FDNS	06ALL	2	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	102.8037	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04826	102.191	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05454	101.6078	DBL-THIS-WWR
FDNS	06ALL	2	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	20SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05446	101.2292	DBL-THIS-WWR
FDNS	06ALL	2	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04826	100.9732	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	2	17SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04624	100.4529	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04982	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04982	100.0881	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04553	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04553	99.50349	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04452	99.4	DBL-THIS-WIC
FDNS	06ALL	2	20SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03388	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	20SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.9	GEN520998 1-MORLND3
FDNS	06ALL	2	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12688	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12688	117.8858	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10865	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10865	111.4118	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12688	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12688	104.5199	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10295	101.4646	DBL-G1114-WW
FDNS	06ALL	2	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10295	99.8	DBL-BVR-G111
FDNS	06ALL	2	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10865	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.10865	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08731	96.6	DBL-G1114-WW
FDNS	06ALL	2	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.08731	95	DBL-BVR-G111
FDNS	06ALL	2	20L	G14_047	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11258	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11258	104.6585	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13126	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20WP	G14_047	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13126	103.4117	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	17G	G14_047	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03223	116.0942	DBL-THIS-WIC
FDNS	06ALL	2	16WP	G14_047	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.03252	104.2502	DBL-THIS-WIC
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	G14_047	-	Non-Converged Contingency	1532	1793	0.08858	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	2	16WP	G14_047	-	Non-Converged Contingency	1532	1793	0.08858	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	06ALL	2	20SP	G14_047	TO->FROM	PLANT X STATION - TOLK STATION EAST 230KV CKT 2	478.05	501.55	0.04307	96.9	P12:345:SPS:J02.1.TOLK.EDDY
FDNS	06ALL	2	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0662	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0662	102.7735	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0662	102.7735	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0662	102.7514	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0662	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	2	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0662	99.1	LAMB COUNTY INTERCHANGE (WH ALM20172) 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	2	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0662	99.1	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	2	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.0662	99	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	2	20L	G14_047	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13309	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13309	101.8914	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13309	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	2	20L	G14_047	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13309	109.6817	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13291	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.13291	100.9772	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15494	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	TO->FROM	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1	421	439	0.15494	98.67661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_047	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	143	0.03221	100.1083	DBL-THIS-WIC
FDNS	06ALL	3	17G	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03221	140.9559	DBL-THIS-WIC
FDNS	06ALL	3	20WP	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.03238	134.8709	DBL-THIS-WIC
FDNS	06ALL	3	16WP	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0325	127.0277	DBL-THIS-WIC
FDNS	06ALL	3	17SP	G14_047	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	110	0.0355	109.009	DBL-THIS-WIC
FDNS	06ALL	3	20SP	G14_047	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.05547	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	20SP	G14_047	FROM->TO	CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1	96	96	0.05547	99	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	06ALL	3	25SP	G14_047	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.17507	98	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	3	25SP	G14_047	FROM->TO	EDDY_NORTH 6230.00 (WAUK WT01134) 230/115/13.2KV TRANSFORMER CKT 2	248.9	286	0.17507	97.2	EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1
FDNS	06ALL	3	17G	G14_047	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11736	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_047	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11736	95.77135	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_047	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11736	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_047	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	287	316	0.11736	95.43105	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	268	287	0.03968	105.2423	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03968	186.1329	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03968	165.9942	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04358	165.2778	DBL-THIS-WWR
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0352	164.4221	DBL-THIS-WIC
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03968	164.2471	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04027	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04027	158.0691	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04027	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04027	147.3234	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03296	147.0576	CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03248	146.0418	P12:230:AEPW:ELKCITY6:SWEETWT6
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03296	141.8708	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03296	141.8694	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03296	141.8622	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	20L	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.0296	136.8764	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL	3	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	117.3183	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04824	112.8878	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05261	107.7803	DBL-THIS-WWR
FDNS	06ALL	3	20SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04788	104.0995	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04266	104.028	DBL-THIS-WIC
FDNS	06ALL	3	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	102.8036	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04824	102.1886	G11_051T 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.05454	101.6129	DBL-THIS-WWR
FDNS	06ALL	3	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04753	101.4269	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	20SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.05446	101.2315	DBL-THIS-WWR
FDNS	06ALL	3	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04824	100.9709	G11_051T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	06ALL	3	17SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04623	100.4515	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04987	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04987	100.1487	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04559	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.04559	99.55839	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	171	185	0.04451	99.4	DBL-THIS-WIC
FDNS	06ALL	3	20SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03388	98.9	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	20SP	G14_047	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	133	153	0.03121	95.8	GEN520998 1-MORLND3
FDNS	06ALL	3	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12672	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12672	117.8287	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.1085	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.1085	111.3661	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12672	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.12672	104.4658	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10261	101.3496	DBL-G1114-WW

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEA (MVA)	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	06ALL	3	20WP	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	329.05	360.92	0.10261	99.7	DBL-BVR-G111
FDNS	06ALL	3	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.1085	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.1085	98.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	318.7	350.57	0.087	96.5	DBL-G1114-WW
FDNS	06ALL	3	20L	G14_047	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11243	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	318.7	350.57	0.11243	104.607	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13109	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20WP	G14_047	FROM->TO	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	329.05	360.92	0.13109	103.3515	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	17G	G14_047	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	138.6	143.4	0.03221	116.0839	DBL-THIS-WIC
FDNS	06ALL	3	16WP	G14_047	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	143.4	0.0325	104.235	DBL-THIS-WIC
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G14_047	-	Non-Converged Contingency	1532	1793	0.08853	-	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G14_047	-	Non-Converged Contingency	1532	1793	0.08853	-	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G14_047	-	Non-Converged Contingency	1532	1793	0.08853	-	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNSLock-Iteration limit exceeded	06ALL	3	16WP	G14_047	-	Non-Converged Contingency	1532	1793	0.08853	-	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	06ALL	3	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06342	101.4077	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	3	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06342	101.3877	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06342	101.3877	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06342	101.3877	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	3	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06342	97.8	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
FDNS	06ALL	3	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06342	97.8	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06342	97.8	LAMB COUNTY INTERCHANGE (WH ALM20172) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	06ALL	3	25SP	G14_047	FROM->TO	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1	252	252	0.06342	97.8	P12:230:SPS:K37.1.TOLK.LAMB
FDNS	06ALL	3	20L	G14_047	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13291	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	FROM->TO	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	348.58	381.24	0.13291	101.836	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13291	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	06ALL	3	20L	G14_047	FROM->TO	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	353	353	0.13291	109.6222	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	0	0	20WP	G14_056	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.05512	100	CIMARRON - MINCO 345KV CKT 1
FDNSLock-Iteration limit exceeded	0	0	16WP	G14_056		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.04472	46.16103	BASE CASE
FDNS	0	0	20WP	G14_056	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.05512	97.1	CIMARRON - MINCO 345KV CKT 1
FDNS	0	0	25SP	G14_056	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.0306	110.3366	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G14_056	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.0306	110.3366	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G14_056	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.0306	108.6036	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G14_056	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.0306	108.6036	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	20WP	G14_057	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.04295	106.9445	G14-057T 345.00 - SUNNYSIDE 345KV CKT 1
FDNS	0	0	16WP	G14_057	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.04325	104.642	G14-057T 345.00 - SUNNYSIDE 345KV CKT 1
FDNS	0	0	20WP	G14_057	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.03096	100	CIMARRON - MINCO 345KV CKT 1
FDNS	0	0	20WP	G14_057	FROM->TO	CORN TAP - NAPLESTP 138.00 138KV CKT 1	132	143	0.03096	95	GRACEMONT - MINCO 345KV CKT 1
FDNSLock-Iteration limit exceeded	0	0	16WP	G14_057		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.03758	46.16103	BASE CASE
FDNS	0	0	20WP	G14_057	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.04295	103.9597	G14-057T 345.00 - SUNNYSIDE 345KV CKT 1
FDNS	0	0	16WP	G14_057	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.04325	101.6708	G14-057T 345.00 - SUNNYSIDE 345KV CKT 1
FDNS	0	0	20WP	G14_057	FROM->TO	NAPLESTP 138.00 - PAYNE 138.00 138KV CKT 1	132	143	0.03096	97.1	CIMARRON - MINCO 345KV CKT 1
FDNS	0	0	25SP	G14_057	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.05086	110.3366	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G14_057	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.05086	110.3366	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G14_057	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.05086	108.6036	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G14_057	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.05086	108.6036	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G14_057	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.04035	104.4894	TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1
FDNS	0	0	25SP	G14_057	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	560	0.04035	103.5495	TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1
FDNSLock-Iteration limit exceeded	0	0	16WP	G14_064		GEN542956 2-LACYGNE UNIT #2	1141	1195	0.0567	46.16103	BASE CASE

I: Power Flow Analysis (Constraints from Multi-Contingencies)

Available upon request. Contact SPP Generation Interconnection Studies for details.