

Definitive Interconnection  
System Impact Study for  
Generation Interconnection  
Requests  
(DISIS-2011-001-1)

December 2011

Generation Interconnection

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## Revision History

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Date or Version Number	Author	Change Description	Comments
7/29/2011	Southwest Power Pool	N/A	Report Issued
12/16/2011	Southwest Power Pool	Account for withdrawn projects	Report Issued

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## Executive Summary

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Generation Interconnection customers have requested a Definitive Interconnection System Impact Study (DISIS) under the Generation Interconnection Procedures (GIP) in the Southwest Power Pool Open Access Transmission Tariff (OATT). The Interconnection Customers' requests have been clustered together for the following Impact Cluster Study. This Impact Study analyzes the interconnecting of multiple generation interconnection requests associated with new generation totaling approximately 4,742 MW of new generation which would be located within the transmission systems of American Electric Power Inc. (AEPW), Kansas City Power & Light (KACP), Missouri Public Service (MIPU), Nebraska Public Power District (NPPD), Oklahoma Gas and Electric (OKGE), Southwestern Public Service (SPS), Sunflower Electric Power Corporation (SUNC), and Westar Energy (WERE). The various generation interconnection requests have differing proposed in-service dates<sup>1</sup>. The generation interconnection requests included in this 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.

Power flow analysis has indicated that for the power flow cases studied, 4,742 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 Order No. 661-A 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 and necessary reactive compensation requirements.

The total estimated minimum cost for interconnecting the DISIS-2011-001 interconnection customers is \$659,000,000. These costs are shown in Appendix E and F. Interconnection Service to DISIS-2011-001 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 that was identified as shown in Appendix H.

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<sup>1</sup> The generation interconnection requests in-service dates will need to be deferred based on the required lead time for the Network Upgrades necessary. The Interconnection Customer's 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.

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 the Energy Resource (ER) Interconnection Request. Certain Interconnection Requests were studied for Network Resource Interconnection Service (NR). Those constraints are listed in Appendix H. 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

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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 Impact Study. The customers will be referred to in this study as the DISIS-2011-001 Interconnection Customers. This Impact Study analyzes the interconnecting of multiple generation interconnection requests associated with new generation totaling 4,742 MW of new generation which would be located within the transmission systems of American Electric Power Inc. (AEPW), Kansas City Power & Light (KACP), Missouri Public Service (MIPU), Nebraska Public Power District (NPPD), Oklahoma Gas and Electric (OKGE), Southwestern Public Service (SPS), Sunflower Electric Power Corporation (SUNC), and Westar Energy (WERE). The various generation interconnection requests have differing proposed in-service dates<sup>2</sup>. The generation interconnection requests included in this 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.

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

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## Model Development

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### Interconnection Requests Included in the Cluster

SPP has included all interconnection requests that submitted a Definitive Interconnection System Impact Study request no later than March 31, 2011 and were subsequently accepted by Southwest Power Pool under the terms of the Generator Interconnection Procedures (GIP) that became effective March 30, 2010.

Affected System Interconnection Requests - Also included in this Definitive Impact Study are two Affected System Studies all of which are on the Southwestern Public Service Company system. The Affected System Studies have been given the designation ASGI-2011-002 (Herring 115kV) and ASGI-2011-003 (Hendricks 115kV) respectively.

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<sup>2</sup> The generation interconnection requests in-service dates will need to be deferred based on the required lead time for the Network Upgrades necessary. The Interconnection Customer's that proceed to the Facility Study will be provided a new in-service date based on the competition of the Facility Study.

The interconnection requests that are included in this study are listed in Appendix A.

## Previous Queued Projects

The previous queued projects included in this study are listed in Appendix B. In addition to the Base Case Upgrades, the previous queued projects 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.

## Development of Base Cases

**Power flow** - The 2010 series Transmission Service Request (TSR) Models 2011 spring, 2012 summer and winter peak, and 2016 summer and winter peak cases were used for this study. After the cases were developed, each of the control areas' resources were then re-dispatched using current dispatch orders.

**Stability** – The 2010 series SPP Model Development Working Group (MDWG) Models 2011 winter and 2011 summer were used as starting points for this study.

## Base Case Upgrades

The following facilities are part of the SPP Transmission Expansion Plan or the Balanced Portfolio or recently approved Priority Projects. These facilities have been approved 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-2011-001 Customers have not been assigned cost for the below listed projects. The DISIS-2011-001 Customers Generation Facilities in service dates may need to be delayed until the completion of the following upgrades. If for some reason, construction on these projects is discontinued, additional restudies will be needed to determine the interconnection needs of the DISIS customers.

- Hitchland 345/230/115kV upgrades to be built by SPS for 2012/2013 in-service<sup>3</sup>.
  - Hitchland – Moore County 230kV line
  - Hitchland – Perryton 230kV line
  - Hitchland – Texas County 115kV line
  - Hitchland – Hansford County 115kV line
  - Hitchland – Sherman County Tap 115kV line
- Valliant – Hugo – Sunnyside 345kV – assigned to Aggregate Study AG3-2006 Customers
- Wichita – Reno County – Summit 345kV to be built by WERE<sup>4</sup>.
- Rose Hill – Sooner 345kV to be built by WERE/OKGE.
- Knob Hill – Steele City 115kV to be built by NPPD/WERE.
- Balanced Portfolio Projects<sup>5</sup>:

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<sup>3</sup> Approved 230kV upgrades are based on SPP 2007 STEP. Upgrades may need to be re-evaluated in the system impact study.

<sup>4</sup> Approved based on an order of the Kansas Corporation Commission issued in Docket no. 07-WSEE-715-MIS

<sup>5</sup> Notice to Construct (NTC) issued June, 2009

- Gracemont 345/138/13.2kV Autotransformer
- Woodward– Tuco 345kV line
- Iatan– Nashua 345kV line
- Muskogee– Seminole 345kV line
- Post Rock– Axtell 345kV line
- Spearville– Post Rock 345kV line
- Tap Stillwell – Swissvale 345kV line at West Gardner
- Priority Projects<sup>6</sup>:
  - Hitchland - Woodward double circuit 345kV
  - Woodward – Medicine Lodge double circuit 345kV
  - Spearville – Comanche (Clark) double circuit 345kV
  - Comanche (Clark) – Medicine Lodge double circuit 345kV
  - Medicine Lodge – Wichita double circuit 345kV
  - Medicine Lodge 345/138kV autotransformer

### 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-2011-001 study and are assumed to be in service. The DISIS-2011-001 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 GIA or withdraw from the interconnection queue. The DISIS-2011-001 Customer Generation Facilities in service dates may need to be delayed until the completion of the following upgrades.

- Finney – Holcomb 345kV ckt #2 line assigned to GEN-2006-044 interconnection customer<sup>7</sup>.
- Central Plains – Setab 115kV transmission line assigned to GEN-2007-013 interconnection customer.
- Grassland 230/115kV autotransformer #2 assigned to 1<sup>st</sup> Cluster Interconnection Customers (100% to GEN-2008-016)
- Judson Large – North Judson Large – Spearville 115kV circuit #2 assigned to DISIS-2009-001-1 Interconnection Customers (100% to GEN-2008-079)
- Hitchland – Wheeler (Border) Ckt #1 345kV assigned to DISIS-2010-001 Interconnection Customers
- Washita – Gracemont 138kV circuit #2 assigned to DISIS-2010-001 Interconnection Customers
- Post Rock 345/230kV autotransformer #2 assigned to DISIS-2010-001 Interconnection Customers.

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<sup>6</sup> Notice to Construct (NTC) issued June, 2010. NTC for double circuit lines indicated that NTC may be revised at a later time to be built at a higher voltage.

<sup>7</sup> Based on Facility Study Posting November 2008

- Spearville 345/115kV autotransformer #1 assigned to DISIS-2010-001 Interconnection Customers
- Beaver County – Gray County 345kV Ckt #1 assigned to DISIS-2010-002 Interconnection Customers
- St. John – St. John 115kV Ckt #1 assigned to DISIS-2010-002 Interconnection Customers
- Northwest 345/138/13.8kV autotransformer circuit #1 assigned to DISIS-2010-002 NRIS Interconnection Customer Gen-2010-040

### **Potential Upgrades Not in the Base Case**

Any potential upgrades that do not have a Notification to Construct (NTC) 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 in fifteen different regional groups based on geographical and electrical impacts. These groupings are shown in Appendix C.

To determine interconnection impacts, fifteen different dispatch variations of the spring base case models were developed to accommodate the regional groupings.

**Power flow** - For each group, the various wind generating plants were modeled at 80% nameplate of maximum generation. The wind generating plants in the other areas were modeled at 20% nameplate of maximum generation. This process created fifteen different scenarios with each group being studied at 80% nameplate rating. These projects were dispatched as Energy Resources with equal distribution across the SPP footprint. Certain projects that requested Network Resource Interconnection Service were dispatched in an additional analysis into the balancing authority of the interconnecting transmission owner. 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. Each interconnection request was also modeled separately at 100% nameplate for certain analyses.

Peaking units were not dispatched in the 2011 spring model. To study peaking units' impacts, the 2012 summer and winter, and 2016 summer and winter models were chosen and peaking units were modeled at 100% of the nameplate rating and wind generating facilities were modeled at 10% of the nameplate rating. Each interconnection request was also modeled separately at 100% nameplate for certain analyses.

**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 fossil requests.

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## Identification of Network Constraints

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The initial set of network constraints were found by using PTI MUST First Contingency Incremental Transfer Capability (FCITC) analysis on the entire cluster grouping dispatched at the various levels mentioned above. These constraints were then screened to determine if any of the generation interconnection requests had at least a 20% Distribution Factor (DF) upon the constraint. Constraints that measured at least a 20% DF from at least one interconnection request were considered for mitigation. Interconnection Requests that were being studied for Network Resource Interconnection Service were studied in the additional NRIS analysis to determine if any constraint had at least a 3% DF. If so, these constraints were considered for mitigation.

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## Determination of Cost Allocated Network Upgrades

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Cost Allocated Network Upgrades of wind generation interconnection requests were determined using the 2011 spring model. Cost Allocated Network Upgrades of peaking units was determined using the 2016 summer peak model. A MUST FCITC analysis was performed to determine the Distribution Factor, 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 DF 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:
  - Request X Impact Factor on Upgrade Project 1 =  $DF(\%)(X) * MW(X) = X1$
  - Request Y Impact Factor on Upgrade Project 1 =  $DF(\%)(Y) * MW(Y) = Y1$
  - Request Z Impact Factor on Upgrade Project 1 =  $DF(\%)(Z) * MW(Z) = Z1$
- Determine each request's Allocation of Cost for that particular project:
  - 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 for Amounts Advanced for Network Upgrades

Interconnection Customer shall be entitled to credits 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.

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## Interconnection Facilities

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The requirement to interconnect the 4,742 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 \$659,000,000. Interconnection Facilities specific to each generation interconnection request are listed in Appendix E.

A list of constraints with greater than or equal to a 20% OTDF that were identified and used for mitigation are listed in Appendix G. Other Network Constraints in the MIPU, NPPD, OKGE, SPS, SUNC, and WERE transmission systems that were identified are shown in Appendix H. 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.

A preliminary one-line drawing for each generation interconnection request are listed in Appendix D. Figure 1 depicts the major transmission line Network Upgrades needed to support the interconnection of the generation amounts requested in this study.

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## Power flow

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### Power flow Analysis Methodology

The Southwest Power Pool (SPP) Criteria states that:

“The transmission system of the SPP region shall be planned and constructed so that the contingencies as set forth in the Criteria will meet the applicable *NERC Reliability Standards* for transmission planning. All MDWG power flow models shall be tested to verify compliance with the System Performance Standards from NERC Table 1 – Category A.”

The ACCC function of PSS/E was used to simulate single contingencies in portions or all of the modeled control areas of American Electric Power (AEPW), Kansas City Power and Light (KCPL), Missouri Public Service (MIPU), Nebraska Public Power District (NPPD), Oklahoma Gas and Electric (OKGE), Southwestern Public Service (SPS), Sunflower Electric Power Corporation (SUNC), and Westar Energy (WERE) and other control areas were applied and the resulting scenarios analyzed. This satisfies the “more probable” contingency testing criteria mandated by NERC and the SPP criteria.

## Power flow Analysis

A power flow analysis was conducted for each Interconnection Customer's facility using modified versions of the 2011 spring peak, 2012 summer and winter peak, and 2016 summer and winter 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 (ER) Interconnection Request. The available seasonal models used were through the 2016 Winter Peak. Certain requests that requested Network Resource Interconnection Service (NRIS) had an additional analysis conducted for sinking the energy in the interconnecting Transmission Owner's balancing authority.

This analysis was conducted assuming that previous queued requests in the immediate area of these interconnect requests were in-service. The analysis of each Customer's project indicates that additional criteria violations will occur on the MIPU, NPPD, MIDW, OKGE, OPPD, SPS, SUNC, WERE and WFEC transmission systems under steady state and contingency conditions in the peak seasons.

### Cluster Group 1 (Woodward Area)

In addition to the 3,544.4 MW of previously queued generation in the area, 1,147 MW of new interconnection service was studied. The requests in this group cause constraints in the Woodward – Northwest and Woodward – Medicine Lodge corridors. To relieve these issues a new 345kV station, Matthewson, is needed to tie the Tatonga – Northwest and Woodring – Cimarron 345kV circuits. In addition, second 345kV circuits are needed between Tatonga – Matthewson and Matthewson – Cimarron. These upgrades are also needed for Groups 2 and 3 because of the extreme power flow bias from West to East. Additionally, for interconnection customers that requested NRIS service, a number of additional upgrades were identified in the Northwest – Woodward corridor and in the Kansas area.

### Cluster Group 2 (Hitchland Area)

In addition to the 3,015.6 MW of previously queued generation in the area, 913.5 MW of new interconnection service was studied. Constraints on the Northwest-Tatonga were impacted by this group and the mitigation includes the upgrades around Tatonga and Matthewson. Additionally, for interconnection customers that requested NRIS service, terminal equipment at Deaf Smith County Interchange will need to be upgraded.

### Cluster Group 3 (Spearville Area)

In addition to the 3,445.8 MW of previously queued generation in the area, 1,848.1 MW of new interconnection service was studied. Significant outlet constraints are identified in the area due to the amount of generation requesting interconnection. Due to voltage collapse for system intact conditions and single contingency, power flow requires a single circuit 345kV from Spearville – Mullergren – Circle and in order to initialize the models to begin analysis. Stability analysis requires a second 345kV circuit along the same corridor. The 345kV upgrades from group 1 are also needed. Additionally, for interconnection customers that requested NRIS service, a new Mullergren 345/230kV transformer is needed to relieve constraints on the Spearville – Mullergren 230kV line.



**Cluster Group 4 (Mingo/NW Kansas Group)**

In addition to the 924.2 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 5 (Amarillo Area)**

In addition to the 2,132.6 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 6 (South Texas Panhandle/New Mexico)**

In addition to the 2,188.4 MW of previously queued generation in the area, 132.3 MW of new interconnection service was studied. Approximately 1,500MW of interconnection requests withdrew from the initial study. After the withdrawal of those requests, no new constraints were found in this area.

**Cluster Group 7 (Southwestern Oklahoma)**

In addition to the 2,209.8 MW of previously queued generation in the area 100.8 MW of new interconnection service was studied. No new constraints were found in this area.

**Cluster Group 8 (South Central Kansas/North Oklahoma)**

In addition to the 3,351.5 MW of previously queued generation in the area, 4.5 MW of new interconnection service was studied. No new constraints were found in this area.

**Cluster Group 9 (Northeast Nebraska)**

In addition to the 748 MW of previously queued generation in the area, 120 MW of new interconnection service was studied. To integrate the new request located in this area, the Twin Church – Hoskins 230kV will need to have work done to raise the ratings of the line.

**Cluster Group 10 (North Nebraska)**

In addition to the 356.2 MW of previously queued generation in the area, 0 MW of new interconnection service was studied. No new constraints were found in this area.

**Cluster Group 11 (North Central Kansas)**

In addition to the 1,294.1 MW of previously queued generation in the area, 201.0 MW of new interconnection service was studied. To integrate the new interconnection request the Rice – Circle 115kV transmission line must be converted to 230kV operation, and Rice County – Lyons - Wheatland 115kV must be rebuilt and/or have terminal equipment replaced.

**Cluster Group 12 (Northwest Arkansas)**

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 13 (Northwest Missouri)**

In addition to the 2,125.4 MW of previously queued generation in the area, 274.6 MW of new interconnection service was studied. No new constraints were found in this area.

**Cluster Group 14 (South Central Oklahoma)**

In addition to the 950.0 MW of previously queued generation in the area, 0 MW of new interconnection service was studied. No new constraints were found in this area.

**Cluster Group 15 (Southwest Nebraska)**

In addition to the 89.7 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.

**Stability Analysis**

A stability analysis was conducted for each Interconnection Customer’s facility using modified versions of the 2011 summer and 2011 winter peak models. The stability analysis was conducted with all upgrades in service that were identified in the power flow analysis. For each group, the interconnection requests were studied at 100% nameplate output while the other groups were dispatched at 20% output for wind requests and 100% output for fossil requests. The output of the Interconnection Customer’s facility was offset in each model by a reduction in output of existing online SPP generation. 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 study was conducted by S&C Electric (S&C). The stability analysis indicates that requests in Group 1 will be stable for each contingency specified by SPP and the nearby areas will retain angular, frequency and voltage stability. With the power factor requirements and all network upgrades in service, all interconnection request in Group 1 will meet FERC Order #661A low voltage ride through (LVRT) requirements.

Power Factor Requirements:

Request	Size (MW)	Generator Model	Point of Interconnection	Power Factor Requirement at POI*	
				Lagging (supplying)	Leading (absorbing)
GEN-2011-015	300.6	Vestas V90 1.8MW	Tap Tatonga – Woodward 345kV	0.97	0.99
GEN-2011-019	299	Siemens 2.3MW	Woodward 345kV	0.95	0.95
GEN-2011-020	299	Siemens 2.3MW	Woodward 345kV	0.97	0.95
GEN-2011-024	299	Siemens 2.3MW	Tatonga 345kV	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.

### Cluster Group 2 (Hitchland Area)

The Group 2 stability study was conducted by Excel Engineering, Inc. The stability analysis indicates that requests in Group 1 will be stable for each contingency specified by SPP and the nearby areas will retain angular, frequency and voltage stability. With the power factor requirements and all network upgrades in service, all interconnection request in Group 1 will meet FERC Order #661A low voltage ride through (LVRT) requirements.

#### Power Factor Requirements:

Request	Size (MW)	Generator Model	Point of Interconnection	Power Factor Requirement at POI*	
				Lagging (supplying)	Leading (absorbing)
GEN-2011-012	104.5	GE 2.75MW	Tap Moore County - Hitchland 230kV	0.96	0.97
GEN-2011-014	201	Siemens 3.0MW	Tap Hitchland - Woodward 345kV	0.95	1.0
GEN-2011-021	299	Siemens 2.3MW	Tap Hitchland - Woodward 345kV	0.95	0.98
GEN-2011-022	299	Siemens 2.3MW	Hitchland 345kV	0.95	1.0
ASGI-2011-002	10	DeWind 2.0MW	Herring 115kV	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.

### Cluster Group 3 (Spearville Area)

The Group 3 stability study was conducted by S&C Electric (S&C). The stability analysis indicates that requests in Group 3 will be stable for each contingency specified by SPP and the nearby areas will retain angular, frequency and voltage stability. Stability issues were observed in the Post Rock area. These issues were determined to be caused by the placement of fixed line reactors in the power flow model at Post Rock. If these reactors are able to be switched on and off for different power flow conditions, the stability issues will be alleviated. With the power factor requirements and all network upgrades in service, all interconnection request in Group 3 will meet FERC Order #661A low voltage ride through (LVRT) requirements.

#### Power Factor Requirements:

Request	Size (MW)	Generator Model	Point of Interconnection	Power Factor Requirement at POI	
				Lagging (supplying)	Leading (absorbing)
GEN-2010-029	450	Vestas V90 1.8MW	Spearville 345kV	0.96	1.0
GEN-2011-008	600	GE 1.6MW	Clark County 345kV	0.95	1.0
GEN-2011-016	200.1	Siemens 2.3MW	Spearville 345kV	0.95	0.99
GEN-2011-017	299	Siemens 2.3MW	Tap Spearville - Knoll 345kV	0.95	1.0
GEN-2011-023	299	Siemens 2.3MW	Tap Clark - Spearville 345kV	0.99	0.99

\*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.

### Cluster Group 4 (Mingo Area)

There was no stability analysis conducted in the Mingo area due to no requests in the area.

### Cluster Group 5 (Amarillo Area)

There was no stability analysis conducted in the Amarillo area due to no requests in the area.

### Cluster Group 6 (South Texas Panhandle/New Mexico)

The Group 6 stability study was conducted by Excel Engineering, Inc. With the withdrawal of over 1,500MW of interconnection requests, no new upgrades in the Group 6 area were added for the stability analysis. . With the power factor requirements and all network upgrades in service, all interconnection request in Group 6 will meet FERC Order #661A low voltage ride through (LVRT) requirements and the transmission system will remain stable. Plots are available on request.

Power Factor Requirements:

Request	Size (MW)	Generator Model	Point of Interconnection	Power Factor Requirement at POI	
				Lagging (supplying)	Leading (absorbing)
GEN-2010-020	20	Emerson Inverter	Roswell 115kV	0.95	0.95
GEN-2010-058	20	Emerson Inverter	Chaves County 115kV	0.98	0.98
GEN-2011-025	80	GE 1.6MW	Tap Floyd County - Crosby County 115kV	0.97	0.95
ASGI-2011-003	10	Sany 2.0MW	Hendricks 69kV	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.

### Cluster Group 7 (Southwest Oklahoma Area)

The Group 7 stability analysis was conducted by PTerra Consulting. The results showed neither angular nor voltage instability problems in the SPP system for all contingencies analyzed. With the power factor requirements and all network upgrades in service, all interconnection request in Group 7 will meet FERC Order #661A low voltage ride through (LVRT) requirements and the transmission system will remain stable.

Power Factor Requirements:

Request	Size (MW)	Generator Model	Point of Interconnection	Power Factor Requirement at POI	
				Lagging (supplying)	Leading (absorbing)
GEN-2011-007	250	RePower 2.05MW	Tap Cimarron - Woodring 345kV	0.97	0.95
GEN-2011-010	100.8	GE 1.6MW	Minco 345kV	0.99	0.99

\*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.

### Cluster Group 8 (South Central Kansas/North Oklahoma)

The Group 8 stability analysis was conducted by ABB Inc. The results showed neither angular nor voltage instability problems in the SPP system for all contingencies analyzed. With the power factor requirements and all network upgrades in service, all interconnection request in Group 8 will meet FERC Order #661A low voltage ride through (LVRT) requirements and the transmission system will remain stable.

Power Factor Requirements:

Request	Size (MW)	Generator Model	Point of Interconnection	Power Factor Requirement at POI	
				Lagging (supplying)	Leading (absorbing)
GEN-2010-055	4.5	GENROU	Wekiwa 138kV	0.95	0.95

### Cluster Group 9 (Northeast Nebraska Area)

The Group 9 stability analysis was conducted by Power-tek Global Inc. There are no impacts on the stability performance of the SPP system for the contingencies simulated, the studied request stays on-line and stable. With the power factor requirements and all network upgrades in service, all interconnection request in Group 9 will meet FERC Order #661A low voltage ride through (LVRT) requirements and the transmission system will remain stable.

Power Factor Requirements:

Request	Size (MW)	Generator Model	Point of Interconnection	Power Factor Requirement at POI	
				Lagging (supplying)	Leading (absorbing)
GEN-2011-027	120	Nordex 2.5MW	Tap Twin Church – Hoskins 230kV	0.98	1.0

\*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.

### Cluster Group 10 (North Nebraska Area)

There was no stability analysis conducted in the North Nebraska area due to no requests in the area.

### Cluster Group 11 (North Central Kansas Area)

The Group 11 stability analysis was conducted by ABB Inc. The results showed neither angular nor voltage instability problems in the SPP system for all contingencies analyzed. With the power factor requirements and all network upgrades in service, all interconnection request in Group 8 will meet FERC Order #661A low voltage ride through (LVRT) requirements and the transmission system will remain stable.

Power Factor Requirements:

Request	Size (MW)	Generator Model	Point of Interconnection	Power Factor Requirement at POI	
				Lagging (supplying)	Leading (absorbing)
GEN-2010-057	201	GE 1.5MW	Rice County 230kV	0.98	1.0

\*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.

**Cluster Group 12 (Northwest Arkansas Area)**

There was no stability analysis conducted in the Northwest Arkansas area due to no requests in the area.

**Cluster Group 13 (Northwest Missouri Area)**

The Group 13 stability analysis was conducted by Mitsubishi Electric, Inc. The stability analysis determined that no generator tripping or system instability occurs from interconnecting Group 13 projects. With the power factor requirements and all network upgrades in service, all interconnection request in Group 13 will meet FERC Order #661A low voltage ride through (LVRT) requirements and the transmission system will remain stable.

Power Factor Requirements:

Request	Size (MW)	Generator Model	Point of Interconnection	Power Factor Requirement at POI	
				Lagging (supplying)	Leading (absorbing)
GEN-2010-056	151	Vestas V90 1.8MW	Tap Saint Joseph - Cooper 345kV	1.0	0.95
GEN-2011-011	50	GENROU	Iatan 345kV	0.95	0.95
GEN-2011-018	73.6	Siemens 2.3MW	Steele City 115kV	1.0	0.98

\*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.

**Cluster Group 14 (South Central Oklahoma)**

The only request in Group 14 was withdrawn resulting in no additional stability analysis.

**Cluster Group 15 (Southwest Nebraska Area)**

There was no stability analysis conducted in the Southwest Nebraska area due to no requests in the area.

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## Conclusion

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The minimum cost of interconnecting 4,742 MW of new interconnection requests included in this Definitive Interconnection System Impact Study is estimated at \$659,000,000 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 I which are Network Constraints.

These interconnection costs do not include any cost of Network Upgrades determined to be required by 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).

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# Appendix

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**A. Generation Interconnection Requests Considered for Impact 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*
GEN-2010-020	20.0	ER	SPS	Roswell 69kV	Roswell 69kV		12/31/2014
GEN-2010-029	450.0	NR	SUNC	Spearville 345kV	Spearville 345kV	12/31/2013	12/31/2014
GEN-2010-055	4.5	ER	AEPW	Wekiwa 138kV	Wekiwa 138kV	12/31/2011	TBD
GEN-2010-056	151.2	ER/NR	MIPU	Tap Saint Joseph - Cooper 345kV	Tap Saint Joseph - Cooper 345kV	6/1/2012	TBD
GEN-2010-057	201.0	ER/NR	MIDW	Rice County 230kV	Rice County 230kV	8/1/2012	TBD
GEN-2010-058	20.0	ER	SPS	Chaves County 115kV	Chaves County 115kV	12/31/2011	12/31/2014
GEN-2011-007	250.0	NR	OKGE	Tap Cimarron - Woodring 345kV	Tap Cimarron - Woodring 345kV (Matthewson 345kV)	11/30/2011	12/31/2014
GEN-2011-008	600.0	ER	SUNC	Clark County 345kV	Clark County 345kV	12/1/2015	12/1/2015
GEN-2011-010	100.8	ER	OKGE	Minco 345kV	Minco 345kV	12/1/2012	TBD
GEN-2011-011	50.0	ER	KCPL	Iatan 345kV	Iatan 345kV	12/31/2010	TBD
GEN-2011-012	104.5	ER/NR	SPS	Tap Moore County - Hitchland 230kV	Tap Moore County - Hitchland 230kV	12/31/2012	12/31/2014
GEN-2011-014	201.0	ER/NR	OKGE	Tap Hitchland - Woodward 345kV	Tap Hitchland - Woodward 345kV	12/31/2013	12/31/2014
GEN-2011-016	200.1	ER/NR	SUNC	Spearville 345kV	Spearville 345kV	12/1/2013	12/31/2014
GEN-2011-017	299.0	ER/NR	SUNC	Tap Spearville - Knoll 345kV	Tap Spearville - Knoll 345kV	12/1/2013	12/31/2014
GEN-2011-018	73.6	ER/NR	NPPD	Steele City 115kV	Steele City 115kV	12/1/2013	
GEN-2011-019	299.0	ER/NR	OKGE	Woodward 345kV	Woodward 345kV	12/31/2012	12/31/2014
GEN-2011-020	299.0	ER/NR	OKGE	Woodward 345kV	Woodward 345kV	12/31/2012	12/31/2014
GEN-2011-021	299.0	ER/NR	SPS	Tap Hitchland - Woodward 345kV	Tap Hitchland - Woodward 345kV	12/31/2012	12/31/2014
GEN-2011-022	299.0	ER/NR	SPS	Hitchland 345kV	Hitchland 345kV	12/31/2012	12/31/2014
GEN-2011-023	299.0	ER/NR	SUNC	Tap Clark - Spearville 345kV	Clark 345kV	12/31/2012	12/31/2014
GEN-2011-024	299.0	ER/NR	OKGE	Tatonga 345kV	Tatonga 345kV	12/31/2012	12/31/2014
GEN-2011-025	82.3	ER	SPS	Tap Floyd County - Crosby County 115kV	Tap Floyd County - Crosby County 115kV	6/30/2012	12/31/2014
GEN-2011-027	120.0	ER/NR	NPPD	Tap Twin Church - Hoskins 230kV	Tap Twin Church - Hoskins 230kV	12/31/2012	TBD
ASGI-2011-002	10.0	ER	SPS	Herring 115kV	Herring 115kV		TBD
ASGI-2011-003	10.0	ER	SPS	Hendricks 115kV	Hendricks 115kV		TBD
<b>TOTAL</b>	<b>4,742</b>						

\*request dependent upon Priority Projects or Balanced Portfolio may be delayed until 12/31/2014. Other projects in service date to be determined after Facility Study.

**B: Prior Queued Interconnection Requests**

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2001-014	96.0	WFEC	Fort Supply 138kV	On-Line
GEN-2001-026	74.0	WFEC	Washita 138kV	On-Line
GEN-2001-033	180.0	SPS	San Juan Mesa Tap 230kV	On-Line
GEN-2001-036	80.0	SPS	Caprock Tap 115kV	On-Line
GEN-2001-037	100.0	OKGE	Windfarm Switching 138kV	On-Line
GEN-2001-039A	105.0	MKEC	Tap Greensburg - Judson-Large 115kV	On Schedule for 2012
GEN-2001-039M	100.0	SUNC	Central Plains Tap 115kV	On-Line
GEN-2002-004	200.0	WERE	Latham 345kV	On-Line at 150MW
GEN-2002-005	120.0	WFEC	Red Hills Tap 138kV	On-Line
GEN-2002-008	240.0	SPS	*Hitchland 345kV	On-Line at 120MW
GEN-2002-009	80.0	SPS	Hansford County 115kV	On-Line
GEN-2002-022	240.0	SPS	Bushland 230kV	On-Line
GEN-2002-025A	150.0	MKEC	Spearville 230kV	On-Line
GEN-2003-004	100.0	WFEC	Washita 138kV	On-Line
GEN-2003-005	100.0	WFEC	Anadarko - Paradise 138kV	On Line
GEN-2003-006A	200.0	MKEC	Elm Creek 230kV	On-Line
GEN-2003-019	250.0	MIDW	Smoky Hills Tap 230kV	On-Line
GEN-2003-020	160.0	SPS	Martin 115kV	On-Line at 80MW
GEN-2003-022	120.0	AEPW	Washita 138kV	On-Line
GEN-2004-023	20.6	WFEC	Washita 138kV	On-Line
GEN-2004-014	154.5	MKEC	Spearville 230kV	On Schedule for 2012
GEN-2004-020	27.0	AEPW	Washita 138kV	On-Line
GEN-2005-003	30.6	WFEC	Washita 138kV	On-Line
GEN-2005-005	18.0	OKGE	Windfarm Tap 138kV	IA Pending
GEN-2005-008	120.0	OKGE	Woodward 138kV	On-Line
GEN-2005-012	250.0	SUNC	Spearville 345kV	On Schedule for 2012
GEN-2005-013	201.0	WERE	Tap Latham - Neosho	On Schedule for 2012
GEN-2005-017	340.0	SPS	*Tap Hitchland - Potter County 345kV	On Suspension
GEN-2006-002	101.0	AEPW	Grapevine - Elk City 230kV	On-Line
GEN-2006-006	205.5	MKEC	Spearville 230kV	IA Pending
GEN-2006-014	300.0	MIPU	Tap Maryville – Clarinda and tie Midway (WFARMS) 161kV	On Suspension
GEN-2006-017	300.0	MIPU	Tap Maryville – Clarinda and tie Midway (WFARMS) 161kV	On Suspension
GEN-2006-018	170.0	SPS	Tuco 230kV	On-Line
GEN-2006-020S	18.9	SPS	DWS Frisco Tap	On Schedule for 12/31/2011
GEN-2006-020N	42.0	NPPD	Bloomfield 115kV	On-Line
GEN-2006-021	101.0	MKEC	Flat Ridge Tap 138kV	On-Line
GEN-2006-022	150.0	MKEC	Ninnescah Tap 115kV	On Suspension
GEN-2006-024S	19.8	WFEC	South Buffalo Tap 69kV	On-Line
GEN-2006-026	502.0	SPS	Hobbs 230kV	On-Line
GEN-2006-031	75.0	MIDW	Knoll 115kV	On-Line
GEN-2006-032	200.0	MIDW	South Hays 230kV	On Suspension
GEN-2006-034	81.0	SUNC	Kanarado 115kV	On Suspension
GEN-2006-035	225.0	AEPW	Sweetwater 230kV	On Schedule for 2011
GEN-2006-037N1	75.0	NPPD	Broken Bow 115kV	On Suspension
GEN-2006-038N019	80.0	NPPD	Petersburg 115kV	On-Line
GEN-2006-038	750.0	WFEC	Hugo 345kV	On Suspension
GEN-2006-038N005	80.0	NPPD	Broken Bow 115kV	On-Line
GEN-2006-039	400.0	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV	On Suspension
GEN-2006-040	108.0	SUNC	Mingo 115kV	On Schedule for 2012
GEN-2006-043	99.0	AEPW	Grapevine - Elk City 230kV	On Line
GEN-2006-044	370.0	SPS	*Hitchland 345kV	On Schedule for 2014
GEN-2006-044N	40.5	NPPD	Petersburg 115kV	On Schedule for 12/2011
GEN-2006-044N02	100.5	NPPD	GEN-2008-086N02 230kV	IA Pending
GEN-2006-045	240.0	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV	On Schedule for 2012
GEN-2006-046	131.0	OKGE	Dewey 138kV	On-Line
GEN-2006-047	240.0	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV	On Suspension
GEN-2006-049	400.0	SPS	*Hitchland - Finney 345kV	On Schedule for 2014

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2007-002	160.0	SPS	Grapevine 115kV	On Suspension
GEN-2007-006	160.0	OKGE	Roman Nose 138kV	On Suspension
GEN-2007-011	135.0	SUNC	Syracuse 115kV	On Schedule
GEN-2007-011N08	81.0	NPPD	Bloomfield 115kV	On-Line
GEN-2007-013	99.0	SUNC	Selkirk 115kV	On Suspension
GEN-2007-015	135.0	WERE	Tap Kelly – S1399 (OPPD) 161kV	On Suspension
GEN-2007-017	100.5	MIPU	Tap Maryville – Clarinda and tie Midway (WFARMS) 161kV	On Suspension
GEN-2007-021	201.0	OKGE	*Tatonga 345kV	On Schedule for 2014
GEN-2007-025	300.0	WERE	Tap Woodring – Wichita 345kV	On Schedule for 2012
GEN-2007-032	150.0	WFEC	Tap Clinton Junction – Clinton 138kV	OnSchedule for 2012
GEN-2007-038	200.0	SUNC	Spearville 345kV	On Schedule for 2015
GEN-2007-040	200.1	SUNC	Tap Holcomb – Spearville 345kV	On Schedule for 2012
GEN-2007-043	200.0	OKGE	Minco 345kV	On-Line
GEN-2007-044	300.0	OKGE	*Tatonga 345kV	On Schedule for 2014
GEN-2007-046	199.5	SPS	Hitchland 115kV	On Schedule for 2014
GEN-2007-048	400.0	SPS	Tap Amarillo South – Swisher 230kV	On Schedule for 2014
GEN-2007-050	170.0	OKGE	*Woodward 138kV	On-Line at 150MW
GEN-2007-051	200.0	WFEC	Mooreland 138kV	On Schedule for 2014
GEN-2007-052	150.0	WFEC	Anadarko 138kV	On-Line
GEN-2007-053	110.0	MIPU	Tap Maryville – Clarinda and tie Midway (WFARMS) 161kV	On Schedule for 2013
GEN-2007-057	34.5	SPS	Moore County East 115kV	On Schedule for 2014
GEN-2007-062**	765.0	OKGE	*Woodward 345kV	On Schedule for 2014
GEN-2008-003	101.0	OKGE	*Woodward EHV 138kV	On-Line
GEN-2008-008	60.0	SPS	Graham 115kV	On Schedule for 2012
GEN-2008-009	60.0	SPS	San Juan Mesa Tap 230kV	On Schedule for 2014
GEN-2008-013	300.0	OKGE	Tap Woodring – Wichita 345kV	On Schedule for 2012
GEN-2008-014	150.0	SPS	Tap Tuco – Oklaunion 345kV	On Schedule for 2014
GEN-2008-016	248.0	SPS	Grassland 230kV	IA Pending
GEN-2008-017	300.0	SUNC	Setab 345kV	On Schedule for 2014
GEN-2008-018	405.0	SPS	Finney 345kV	On Schedule for 2012
GEN-2008-019**	300.0	OKGE	*Tatonga 345kV	On Schedule for 2015
GEN-2008-021	42.0	WERE	Wolf Creek 345kV	On-Line
GEN-2008-022	300.0	SPS	Tap Eddy – Tolk 345kV	IA Pending
GEN-2008-023	150.0	AEPW	Hobart Junction 138kV	On Schedule for 2012
GEN-2008-025	101.2	SUNC	Ruleton 115kV	On Schedule for 2015
GEN-2008-029	250.5	OKGE	Woodward EHV 138kV	On Schedule for 2014
GEN-2008-037	101.0	WFEC	Tap Washita – Blue Canyon 138kV	On Schedule for 2011
GEN-2008-044	197.8	OKGE	Tatonga 345kV	On-Line
GEN-2008-046	200.0	OKGE	Sunnyside 345kV	On Suspension
GEN-2008-047	300.0	SPS	Tap Hitchland - Woodward 345kV	IA Pending
GEN-2008-051	322.0	SPS	Potter 345kV	On Schedule for 2012
GEN-2008-071	76.8	OKGE	Newkirk 138kV	On Schedule for
GEN-2008-079	100.5	MKEC	Tap Judson Large – Cudahy 115kV	On Schedule for 2012
GEN-2008-086N02	200.0	NPPD	Tap Ft. Randall – Columbus 230kV	On Schedule for 2014
GEN-2008-088	50.6	SPS	Vega 69kV	IA Pending
GEN-2008-092	201.0	MIDW	Postrock 230kV	IA Pending
GEN-2008-098	100.8	WERE	Tap Wolf Creek – LaCygne 345kV	IA Pending
GEN-2008-119O	60.0	OPPD	S1399 161kV	On-Line
GEN-2008-123N	89.7	NPPD	Tap Guide - Pauline 115kV	On Suspension
GEN-2008-124	200.1	SUNC	Spearville 345kV	On Schedule for 2014
GEN-2008-127	200.1	WERE	Tap Sooner – Rose Hill 345kV	On Suspension
GEN-2008-129	80.0	MIPU	Pleasant Hill 161kV	On-Line
GEN-2009-008	199.5	SUNC	South Hays 230kV	On Suspension
GEN-2009-011	50.0	MKEC	Tap Plainville – Phillipsburg 115kV	On Schedule for 2014
GEN-2009-016	141.0	AEPW	Falcon Road 138kV	On Suspension
GEN-2009-020	48.6	MIDW	Tap Bazine – Nekoma 69kV	On Suspension
GEN-2009-025	60.0	OKGE	Tap Deer Creek – Sinclair 69kV	On Suspension
GEN-2009-040	73.8	WERE	Tap Smittyville - Knob Hill 115kV	On Schedule for 2012
GEN-2009-067S	20.0	SPS	7 Rivers 69kV	On Schedule for 2014
GEN-2010-001	300.0	OKGE	Tap Hitchland – Woodward 345kV	IA Pending
GEN-2010-003	100.8	WERE	GEN-2008-098 345kV	IA Pending
GEN-2010-005	300.0	WERE	GEN-2007-025 345kV	On Schedule for 2012
GEN-2010-006	205.0	SPS	Jones 230kV	On-Line
GEN-2010-007	73.8	SPS	Tap Pringle - Riverview 115kV	IA Pending
GEN-2010-008	64.4	WFEC	Woodward 69kV	IA Pending

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2010-009	165.6	SUNC	Gray County 345kV	On Schedule for 2012
GEN-2010-011	29.7	OKGE	GEN-2008-044 345kV	On Line
GEN-2010-014	360.0	SPS	Hitchland 345kV	IA Pending
GEN-2010-015	200.1	SUNC	Spearville 345kV	On Schedule for 2015
GEN-2010-036	4.6	WERE	6 <sup>th</sup> Street 115kV	On Schedule
GEN-2010-040	300.0	OKGE	Cimarron 345kV	On Schedule for 2012
GEN-2010-041	10.5	OPPD	S 1399 161kV	Under Study (DISIS-2010-002)
GEN-2010-043	320.0	WFEC	Mooreland 138kV	Under Study (DISIS-2010-002)
GEN-2010-045	197.8	SUNC	Tap Holcomb – Spearville 345kV	IA Pending
GEN-2010-046	56.0	SPS	Tuco 230kV	IA Pending
GEN-2010-048	70.0	MIDW	Tap Beach Station – Redline 115kV	IA Pending
GEN-2010-049	49.6	SUNC	Pratt 115kV	IA Pending
GEN-2010-051	200.0	NPPD	TAP TWIN CHURCH – HOSKINS 230kV	IA Pending
GEN-2010-052	301.3	SUNC	FINNEY 345kV	IA Pending
GEN-2010-053	199.8	SUNC	COMANCHE 345kV	IA Pending
Broken Bow	8.3	NPPD	Genoa 115kV	On-Line
Ord	10.8	NPPD	Bloomfield 115kV	On-Line
Stuart	2.1	NPPD	Petersburg 115kV	On-Line
Ainsworth	75.0	NPPD	Ainsworth Wind Tap 115kV	On-Line
Rosebud	30.0	NPPD	St. Francis 115kV	On-Line
Wolf Creek	1,170.0	WERE	Wolf Creek 345kV	On-Line
Genoa	4.0	NPPD	Genoa 115kV	On-Line
ASGI-2010-001	400.0	AECI	Tap Cooper – Fairport 345kV	AECI queue Affected Study
ASGI-2010-002	201.0	AECI	Lathrop 161kV	AECI queue Affected Study
ASGI-2010-004	50.0	AECI	Tap Queen City – Lancaster 69kV	AECI queue Affected Study
ASGI-2010-005	99.0	AECI	Lathrop 161kV	AECI queue Affected Study
ASGI-2010-006	150.0	AECI	Tap Fairfax – Fairfax Tap 138kV	AECI queue Affected Study
ASGI-2010-007	150.0	AECI	Tap Fairfax – Fairfax Tap 138kV	AECI queue Affected Study
ASGI-2010-009	201.0	AECI	Osborn 161kV	AECI queue Affected Study
ASGI-2010-010	42.0	SPS	Lovington 115kV	Affected Study
ASGI-2010-011	48.0	SPS	Texas County 69kV	Affected Study
ASGI-2010-020	50.0	SPS	Tap (LE) Tatum – (LE) Crossroads 69kV	Under Study (DISIS-2010-002)
ASGI-2010-021	36.6	SPS	Tap (LE) Saunders Tap – (LE) Anderson 69kV	Under Study (DISIS-2010-002)
ASGI-2011-001	28.8	SPS	LE-Lovington 115kV	Under Study (DISIS-2010-002)
Llano Estacado	80.0	SPS	Llano Wind Farm Tap 115kV	On-Line
SPS DISTRIBUTED	90.0	SPS	Dumas_19ST 115kV	On-Line
			Etter 115kV	On-Line
			Sherman 115kV	On-Line
			Spearman 115kV	On-Line
			Texas County 115kV	On-Line
Montezuma	110.0	MKEC	Haggard 115kV	On-Line
<b>TOTAL</b>	<b>26,300.5</b>			

### C: Study Groupings

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2001-014	96.0	WFEC	Fort Supply 138kV
	GEN-2001-037	100.0	OKGE	Windfarm Switching 138kV
	GEN-2005-005	18.0	OKGE	Windfarm Tap 138kV
	GEN-2005-008	120.0	OKGE	Woodward 138kV
	GEN-2006-024S	20.0	WFEC	South Buffalo Tap 69kV
	GEN-2006-046	131.0	OKGE	Dewey 138kV
	GEN-2007-006	160.0	OKGE	Roman Nose 138kV
	GEN-2007-021	201.0	OKGE	*Tatonga 345kV
	GEN-2007-044	300.0	OKGE	*Tatonga 345kV
	GEN-2007-050	170.0	OKGE	*Woodward 138kV
	GEN-2007-051	200.0	WFEC	Mooreland 138kV
	GEN-2007-062**	765.0	OKGE	*Woodward 345kV
	GEN-2008-003	101.0	OKGE	*Woodward EHV 138kV
	GEN-2008-019**	300.0	OKGE	*Tatonga 345kV
	GEN-2008-029	250.5	OKGE	Woodward EHV 138kV
	GEN-2008-044	197.8	OKGE	Tatonga 345kV
GEN-2010-008	64.4	WFEC	Fargo 69kV	
GEN-2010-011	29.7	OKGE	GEN-2008-044 345kV	
GEN-2010-043	320.0	WFEC	Mooreland 138kV	
<b>PRIOR QUEUED SUBTOTAL</b>		<b>3,544.4</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
Woodward	GEN-2011-007	250.0	OKGE	Tap Cimarron - Woodring 345kV (Matthewson 345kV)
	GEN-2011-019	299.0	OKGE	Woodward 345kV
	GEN-2011-020	299.0	OKGE	Woodward 345kV
	GEN-2011-024	299.0	OKGE	*Tatonga 345kV
<b>Group 1 WOODWARD SUBTOTAL</b>		<b>1,147</b>		
<b>AREA TOTAL</b>		<b>4,691.4</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	SPS Distribution	90.0	SPS	Various
	ASGI-2010-011	48.0	SPS	Texas County 69kV
	GEN-2002-008	240.0	SPS	*Hitchland 345kV
	GEN-2002-009	80.0	SPS	Hansford County 115kV
	GEN-2003-020	160.0	SPS	Martin 115kV
	GEN-2005-017	340.0	SPS	*Tap Hitchland - Potter County 345kV
	GEN-2006-020S	20.0	SPS	DWS Frisco Tap
	GEN-2006-044	370.0	SPS	*Hitchland 345kV
	GEN-2006-049	400.0	SPS	*Tap Hitchland - Finney 345kV
	GEN-2007-046	200.0	SPS	Tap & Tie Texas County – Hitchland & DWS Frisco Tap – Hitchland 115kV
	GEN-2007-057	35.0	SPS	Moore County East 115kV
	GEN-2008-047	300.0	SPS	Tap Hitchland - Woodward 345kV
	GEN-2010-001	300.0	WFEC	GEN-2008-047 Tap 345kV
	GEN-2010-007	73.8	SPS	Tap Pringle – Riverview 115kV
GEN-2010-014	358.8	SPS	Hitchland 345kV	
<b>PRIOR QUEUED SUBTOTAL</b>		<b>3,015.6</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
Hitchland	GEN-2011-012	104.5	SPS	Tap Moore County - Hitchland 230kV
	GEN-2011-014	201.0	SPS	Tap Hitchland - Woodward 345kV
	GEN-2011-021	299.0	SPS	Tap Hitchland - Woodward 345kV
	GEN-2011-022	299.0	SPS	Hitchland 345kV
	ASGI-2011-002	10.0	SPS	Herring 115kV
<b>Group 2 HITCHLAND SUBTOTAL</b>		<b>913.5</b>		
<b>AREA TOTAL</b>		<b>3,929.1</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	Montezuma	110.0	MKEC	Haggard 115kV
	GEN-2001-039A	105.0	MKEC	Tap Greensburg - Judson-Large 115kV
	GEN-2002-025A	150.0	MKEC	Spearville 230kV
	GEN-2004-014	154.5	MKEC	Spearville 230kV
	GEN-2005-012	250.0	SUNC	Spearville 345kV
	GEN-2006-006	205.5	MKEC	Spearville 230kV
	GEN-2006-021	101.0	MKEC	Flat Ridge Tap 138kV
	GEN-2006-022	150.0	MKEC	Ninnescah Tap 115kV
	GEN-2007-038	200.0	SUNC	Spearville 345kV
	GEN-2007-040	200.0	SUNC	Tap Holcomb – Spearville 345kV
	GEN-2008-018	405.0	SUNC	Finney 345kV
	GEN-2008-079	100.5	MKEC	Tap Fort Dodge – Cudahy 115kV
	GEN-2008-124	200.1	SUNC	Spearville 345kV
	GEN-2010-009	165.6	SUNC	Gray County 345kV
	GEN-2010-015	200.1	SUNC	Spearville 345kV
GEN-2010-045	197.8	SUNC	Tap Holcomb – Spearville 345kV	
GEN-2010-049	49.6	MKEC	Pratt 115kV	
GEN-2010-052	301.3	SPS	Finney 345kV	
GEN-2010-053	199.8	SUNC	Comanche 345kV	
<b>PRIOR QUEUED SUBTOTAL</b>		<b>3,445.8</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
Spearville	GEN-2010-029	450.0	SUNC	Spearville 345kV
	GEN-2011-008	600.0	WFEC	Clark County 345kV
	GEN-2011-016	200.1	SUNC	Spearville 345kV
	GEN-2011-017	299.0	SUNC	Tap Spearville - Knoll 345kV
	GEN-2011-023	299.0	SUNC	Clark 345kV
<b>Group 3 SPEARVILLE SUBTOTAL</b>		<b>1,848.1</b>		
<b>AREA TOTAL</b>		<b>5,293.9</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2001-039M	100.0	SUNC	Central Plains Tap 115kV
	GEN-2006-034	81.0	SUNC	Kanarado 115kV
	GEN-2006-040	108.0	SUNC	Mingo 115kV
	GEN-2007-011	135.0	SUNC	Syracuse 115kV
	GEN-2007-013	99.0	SUNC	Selkirk 115kV
	GEN-2008-017	300.0	SUNC	Setab 345kV
	GEN-2008-025	101.2	SUNC	Ruleton 115kV
<b>PRIOR QUEUED SUBTOTAL</b>		<b>924.2</b>		
<b>Group 4 MINGO/NW KANSAS SUBTOTAL</b>		<b>0.0</b>		
<b>AREA TOTAL</b>		<b>924.2</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	Llano Estacado	80.0	SPS	Llano Estacado Tap 115kV
	GEN-2002-022	240.0	SPS	Bushland 230kV
	GEN-2006-039	400.0	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV
	GEN-2006-045	240.0	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV
	GEN-2006-047	240.0	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV
	GEN-2007-002	160.0	SPS	Grapevine 115kV
	GEN-2007-048	400.0	SPS	Tap Amarillo South – Swisher 230kV
	GEN-2008-051	322.0	SPS	Potter 345kV
	GEN-2008-088	50.6	SPS	Vega 69kV
<b>PRIOR QUEUED SUBTOTAL</b>		<b>2,132.6</b>		
<b>Group 5 AMARILLO SUBTOTAL</b>		<b>0.0</b>		
<b>AREA TOTAL</b>		<b>2,132.6</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	ASGI-2010-010	42.0	SPS	Lovington 115kV
	ASGI-2010-020	50.0	SPS	Tap (LE) Tatum – (LE) Crossroads 69kV
	ASGI-2010-021	36.6	SPS	Tap (LE) Saunders Tap – (LE) Anderson 69kV
	ASGI-2011-001	28.8	SPS	LE-Lovington 115kV
	GEN-2001-033	180.0	SPS	San Juan Mesa Tap 230kV
	GEN-2001-036	80.0	SPS	Caprock Tap 115kV
	GEN-2006-018	170.0	SPS	Tuco 230kV
	GEN-2006-026	502.0	SPS	Hobbs 230kV
	GEN-2008-008	60.0	SPS	Graham 115kV
	GEN-2008-009	60.0	SPS	San Juan Mesa Tap 230kV
	GEN-2008-014	150.0	SPS	Tap Tuco – Oklaunion 345kV
	GEN-2008-016	248.0	SPS	Grassland 230kV
	GEN-2008-022	300.0	SPS	Tap Eddy – Tolk 345kV
	GEN-2009-067S	20.0	SPS	7 Rivers 69kV
GEN-2010-006	205.0	SPS	Jones 230kV	
GEN-2010-046	56.0	SPS	Tuco 230kV	
<b>PRIOR QUEUED SUBTOTAL</b>		<b>2,188.4</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
S-TX Panhandle New Mexico	GEN-2010-020	20.0	SPS	Roswell 115kV
	GEN-2010-058	20.0	SPS	Chaves County 115kV
	GEN-2011-025	82.3	SPS	Tap Floyd County - Crosby County 115kV
	ASGI-2011-003	10.0	SPS	Hendricks 115kV
<b>Group 6 S-TX Panhandle/NM SUBTOTAL</b>		<b>132.3</b>		
<b>AREA TOTAL</b>		<b>2,320.7</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2001-026	74.0	WFEC	Washita 138kV
	GEN-2002-005	120.0	WFEC	Tap Morewood – Elk City 138kV
	GEN-2003-004	101.0	WFEC	Washita 138kV
	GEN-2003-005	100.0	WFEC	Anadarko - Paradise 138kV
	GEN-2003-022	120.0	AEPW	Washita 138kV
	GEN-2004-020	27.0	AEPW	Washita 138kV
	GEN-2004-023	21.0	WFEC	Washita 138kV
	GEN-2005-003	31.0	WFEC	Washita 138kV
	GEN-2006-002	101.0	AEPW	Grapevine - Elk City 230kV
	GEN-2006-035	225.0	AEPW	Grapevine - Elk City 230kV
	GEN-2006-043	99.0	AEPW	Grapevine - Elk City 230kV
	GEN-2007-032	150.0	WFEC	Tap Clinton Junction – Clinton 138kV
	GEN-2007-043	200.0	OKGE	Tap Lawton Eastside – Cimarron 345kV
	GEN-2007-052	150.0	WFEC	Anadarko 138kV
	GEN-2008-023	150.0	AEPW	Hobart Junction 138kV
	GEN-2008-037	100.8	WFEC	Tap Washita – Blue Canyon 138kV
	GEN-2009-016	140.0	AEPW	Falcon Road 138kV
GEN-2010-040	300.0	OKGE	Cimarron 345kV	
<b>PRIOR QUEUED SUBTOTAL</b>		<b>2,209.8</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
	GEN-2011-010	100.8	OKGE	Minco 345kV
<b>Group 7 SW OKLAHOMA SUBTOTAL</b>		<b>100.8</b>		
<b>AREA TOTAL</b>		<b>2,310.6</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	Wolf Creek	1,170.0	WERE	Wolf Creek 345kV
	ASGI-2010-006	150.0	AECI	Tap Fairfax – Fairfax Tap 138kV
	ASGI-2010-007	150.0	AECI	Tap Fairfax – Fairfax Tap 138kV
	GEN-2002-004	200.0	WERE	Latham 345kV
	GEN-2005-013	201.0	WERE	Tap Latham - Neosho
	GEN-2007-025	300.0	WERE	Tap Woodring – Wichita 345kV
	GEN-2008-013	300.0	OKGE	Tap Woodring – Wichita 345kV
	GEN-2008-021	42.0	WERE	Wolf Creek 25kV
	GEN-2008-071	76.8	OKGE	Newkirk 138kV
	GEN-2008-098	100.8	WERE	Tap Wolf Creek – LaCygne 345kV
	GEN-2008-127	200.1	WERE	Tap Sooner – Rose Hill 345kV
	GEN-2009-025	60.0	OKGE	Tap Deer Creek – Sinclair 69kV
	GEN-2010-003	100.8	WERE	GEN-2008-098 345kV
GEN-2010-005	300.0	WERE	GEN-2007-025 345kV	
<b>PRIOR QUEUED SUBTOTAL</b>		<b>3,351.5</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
N-OK/S-KS	GEN-2010-055	4.5	AEPW	Wekiwa 138kV
<b>Group 8 N-OK/S-KS SUBTOTAL</b>		<b>4.5</b>		
<b>AREA TOTAL</b>		<b>3,356.0</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	Genoa	4.0	NPPD	Genoa 115kV
	Ainsworth	75.0	NPPD	Ainsworth Wind Tap 115kV
	Rosebud Project	30.0	NPPD	St. Francis 115kV
	Broken Bow	8.3	NPPD	Genoa 115kV
	Ord	10.8	NPPD	Bloomfield 115kV
	Stuart	2.1	NPPD	Petersburg 115kV
	GEN-2004-023N	75.0	NPPD	Columbus Co 11kV
	GEN-2006-020N	42.0	NPPD	Bloomfield 115kV
	GEN-2006-037N1	75.0	NPPD	Broken Bow 115kV
	GEN-2006-038N005	80.0	NPPD	Broken Bow 115kV
	GEN-2006-038N019	80.0	NPPD	Petersburg 115kV
	GEN-2006-044N	40.5	NPPD	Tap Neligh – Petersburg 115kV
	GEN-2006-044N02	100.5	NPPD	GEN-2008-086N02 230kV
	GEN-2007-011N08	81.0	NPPD	Bloomfield 115kV
	GEN-2008-086N02	200.0	NPPD	Tap Ft. Randall – Columbus 230kV
GEN-2010-051	200.0	NPPD	Tap Twin Church – Hoskins 230kV	
<b>PRIOR QUEUED SUBTOTAL</b>		<b>1,104.2</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
N Nebraska	GEN-2011-027	120.0	NPPD	Tap Twin Church - Hoskins 230kV
<b>Group 9/10 N NEBRASKA SUBTOTAL</b>		<b>120.0</b>		
<b>AREA TOTAL</b>		<b>1,224.2</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2003-006A	200.0	MKEC	Elm Creek 230kV
	GEN-2003-019	250.0	MIDW	Smoky Hills Tap 230kV
	GEN-2006-031	75.0	MIDW	Knoll 115kV
	GEN-2006-032	200.0	MIDW	South Hays 230kV
	GEN-2008-092	201.0	MIDW	Knoll 115kV
	GEN-2009-008	199.5	SUNC	South Hays 230kV
	GEN-2009-011	50.0	MKEC	Tap Plainville – Phillipsburg 115kV
	GEN-2009-020	48.6	MIDW	Tap Bazine – Nekoma 69kV
GEN-2010-048	70.0	MIDW	Tap Beach Station – Redline 115kV	
<b>PRIOR QUEUED SUBTOTAL</b>		<b>1,294.1</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
North Kansas	GEN-2010-057	201.0	MIDW	Rice County 230kV
<b>Group 11 NORTH KANSAS SUBTOTAL</b>		<b>201.0</b>		
<b>AREA TOTAL</b>		<b>1,495.1</b>		



Cluster	Request	Amount	Area	Proposed Point of Interconnection
<b>PRIOR QUEUED SUBTOTAL</b>		<b>0.0</b>		
<b>Group 12 NW AR SUBTOTAL</b>		<b>0.0</b>		
<b>AREA TOTAL</b>		<b>0.0</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
<b>Prior Queued</b>	ASGI-2010-001	400.0	AECI	Tap Cooper – Fairport 345kV
	ASGI-2010-002	201.0	AECI	Lathrop 161kV
	ASGI-2010-004	50.0	AECI	Tap Queen City – Lancaster 69kV
	ASGI-2010-005	99.0	AECI	Lathrop 161kV
	ASGI-2010-009	201.0	AECI	Osborn 161kV
	GEN-2006-014	300.0	MIPU	Tap Maryville – Clarinda 161kV & Tie to Midway 161kV
	GEN-2006-017	300.0	MIPU	Tap Maryville – Clarinda 161kV & Tie to Midway 161kV
	GEN-2007-015	135.0	WERE	Tap Humboldt – Kelly 161kV
	GEN-2007-017	100.5	MIPU	Tap Maryville – Clarinda 161kV & Tie to Midway 161kV
	GEN-2007-053	110.0	MIPU	Tap Maryville – Clarinda 161kV & Tie to Midway 161kV
	GEN-2008-1190	60.0	OPPD	Tap Humboldt – Kelly 161kV
	GEN-2008-129	80.0	MIPU	Pleasant Hill 161kV
	GEN-2009-040	73.8	WERE	Tap Smittyville – Knob Hill 115kV
	GEN-2010-036	4.6	WERE	6 <sup>th</sup> Street 115kV
GEN-2010-041	10.5	OPPD	S 1399 161kV	
<b>PRIOR QUEUED SUBTOTAL</b>		<b>2,125.4</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
<b>NW Missouri</b>	GEN-2010-056	151.0	MIPU	Tap Saint Joseph - Cooper 345kV
	GEN-2011-011	50.0	KCPL	Iatan 345kV
	GEN-2011-018	73.6	NPPD	Steele City 115kV
<b>Group 13 NORTHWEST MISSOURI SUBTOTAL</b>		<b>274.6</b>		
<b>AREA TOTAL</b>		<b>2,400.0</b>		

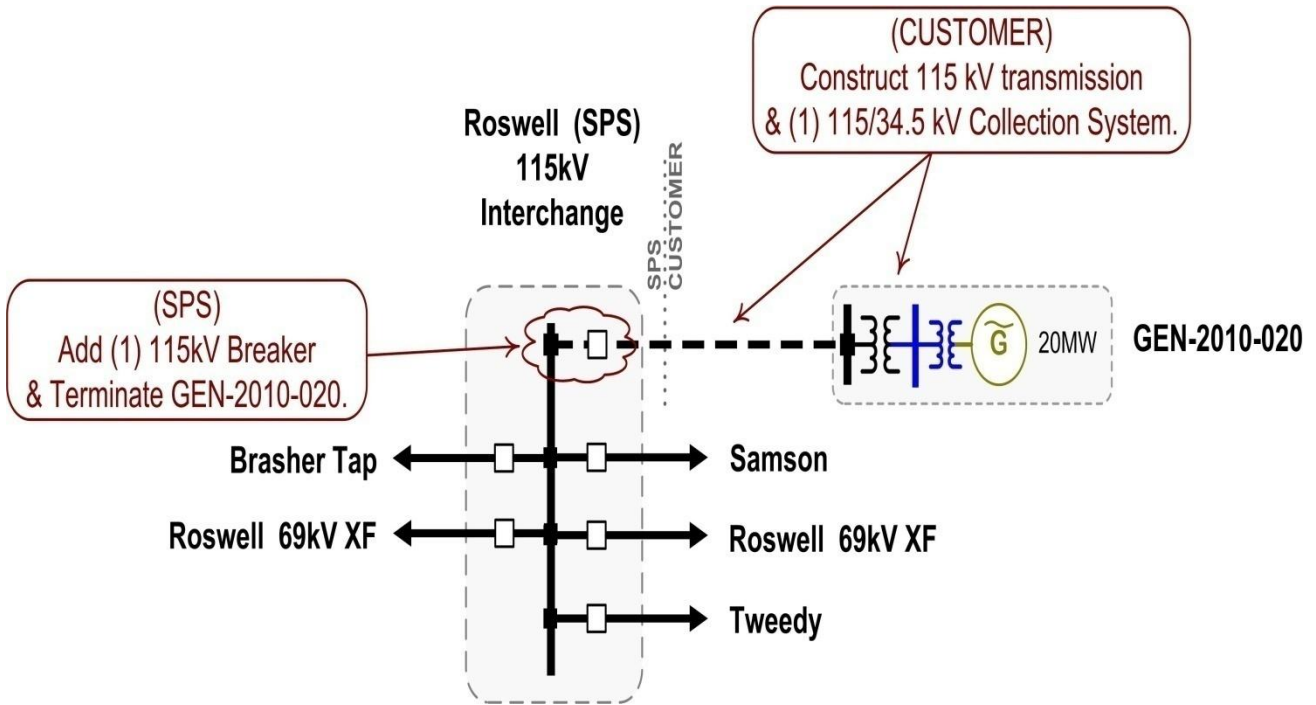
Cluster	Request	Amount	Area	Proposed Point of Interconnection
<b>Prior Queued</b>	GEN-2006-038	750.0	WFEC	Hugo 345kV
	GEN-2008-046	200.0	OKGE	Sunnyside 345kV
<b>PRIOR QUEUED SUBTOTAL</b>		<b>950.0</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
<b>Group 14 SOUTH OKLAHOMA SUBTOTAL</b>		<b>0</b>		
<b>AREA TOTAL</b>		<b>950.0</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
<b>Prior Queued</b>	GEN-2008-123N	89.7	NPPD	Tap Guide – Pauline 115kV
<b>PRIOR QUEUED SUBTOTAL</b>		<b>89.7</b>		
<b>Group 15 SOUTH NEBRASKA</b>		<b>0.0</b>		
<b>AREA TOTAL</b>		<b>89.7</b>		

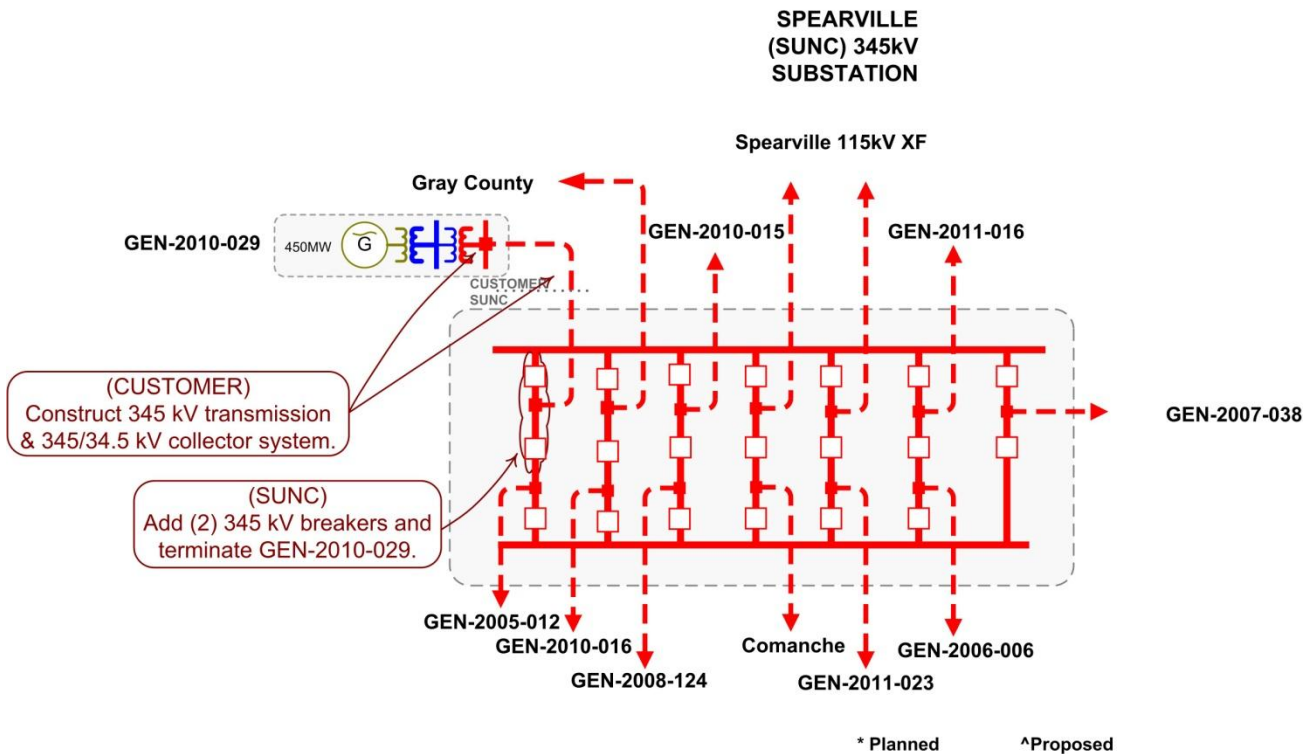
<b>CLUSTER TOTAL (CURRENT STUDY)</b>	<b>4742 MW</b>
<b>CLUSTER TOTAL (INCLUDING PRIOR QUEUED)</b>	<b>31,042.5 MW</b>

### D: Proposed Point of Interconnection One line Diagrams

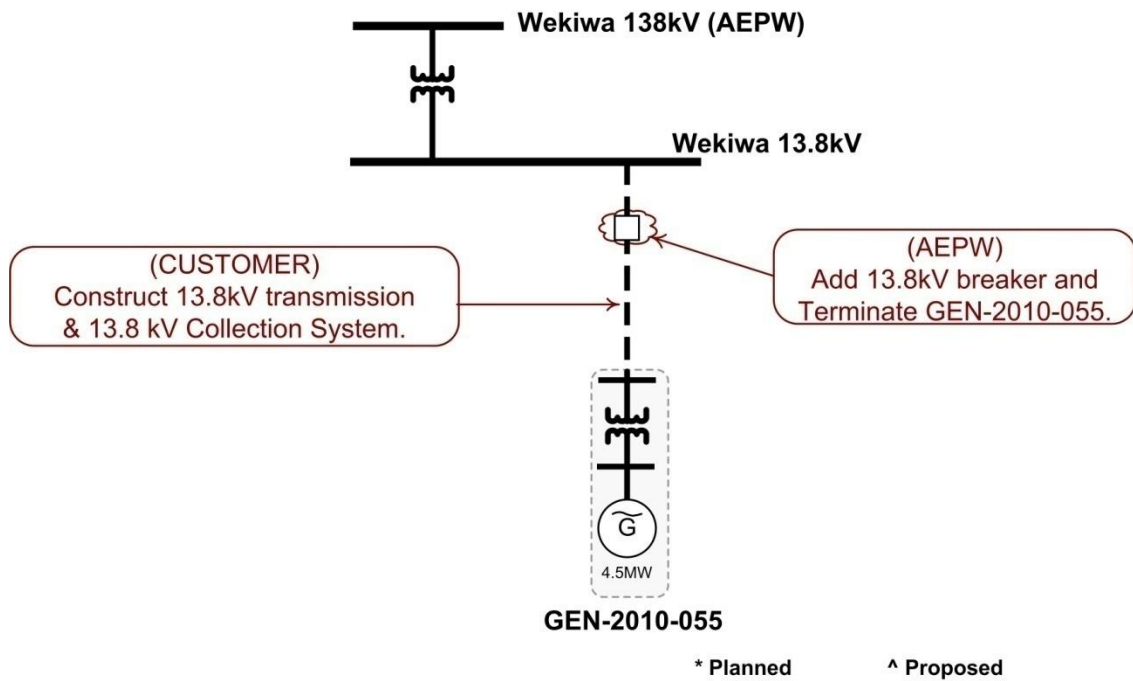
#### GEN-2010-020



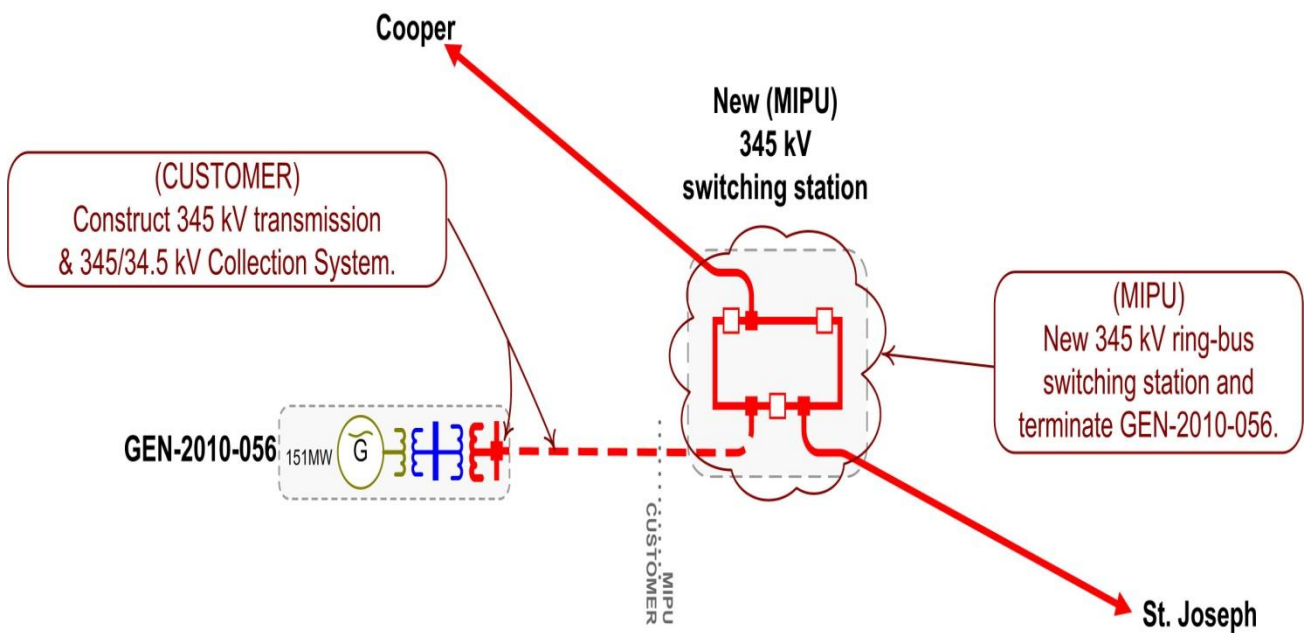
#### GEN-2010-029



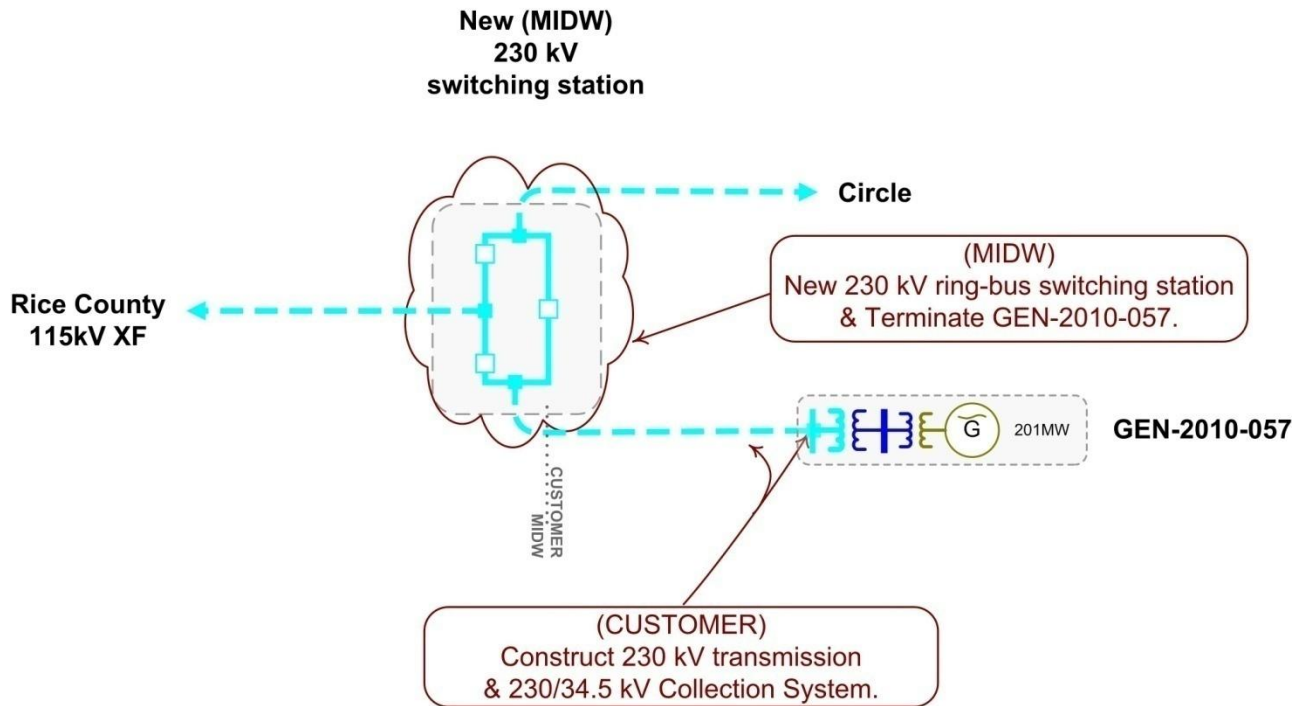
**GEN-2010-055**



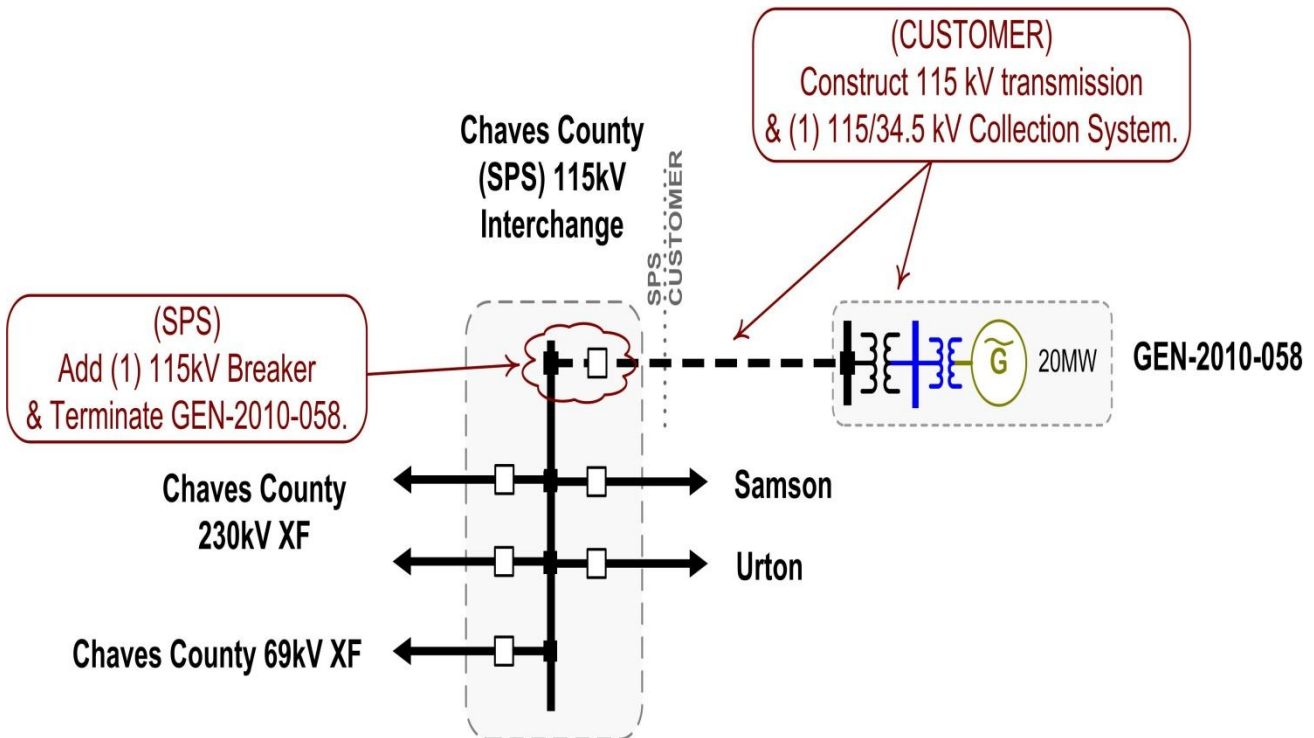
**GEN-2010-056**



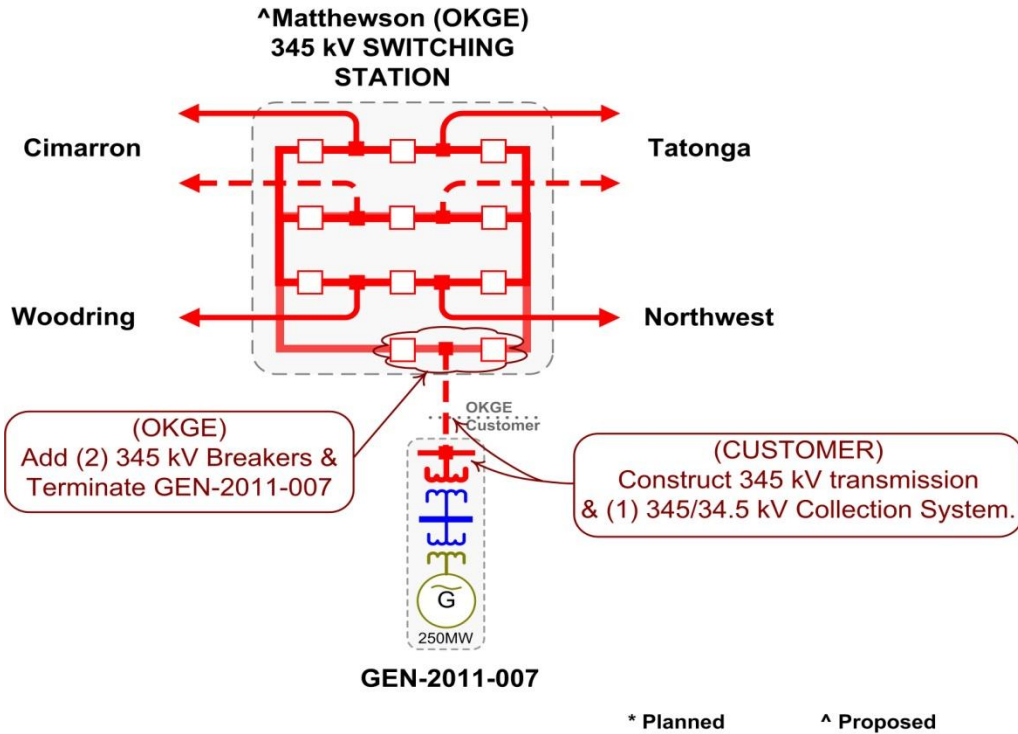
**GEN-2010-057**



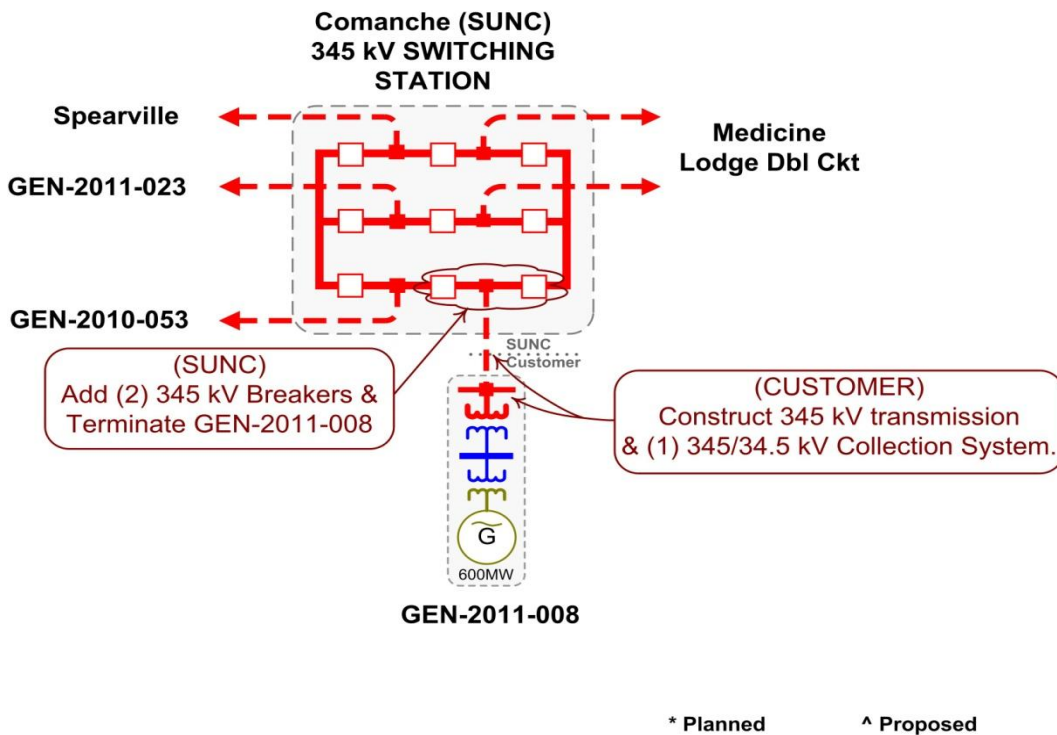
**GEN-2010-058**



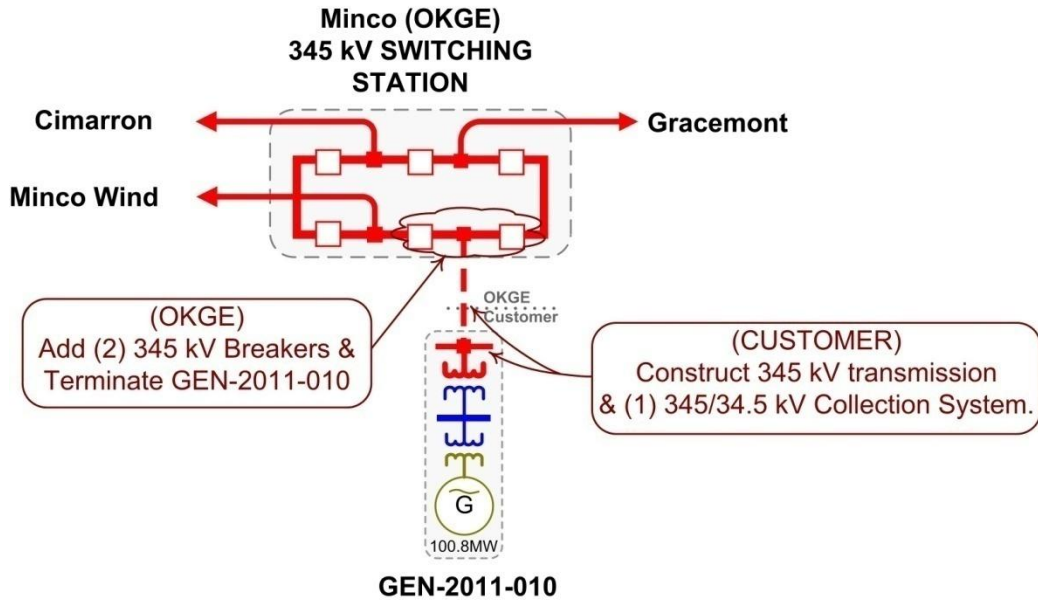
**GEN-2011-007**



**GEN-2011-008**



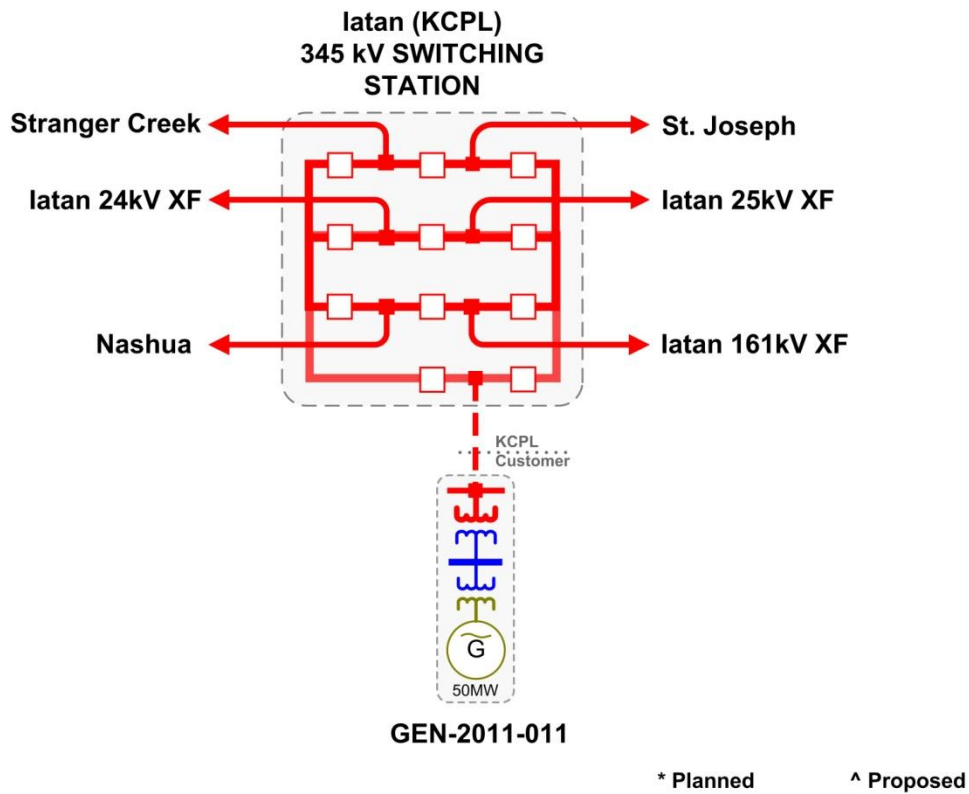
**GEN-2011-010**



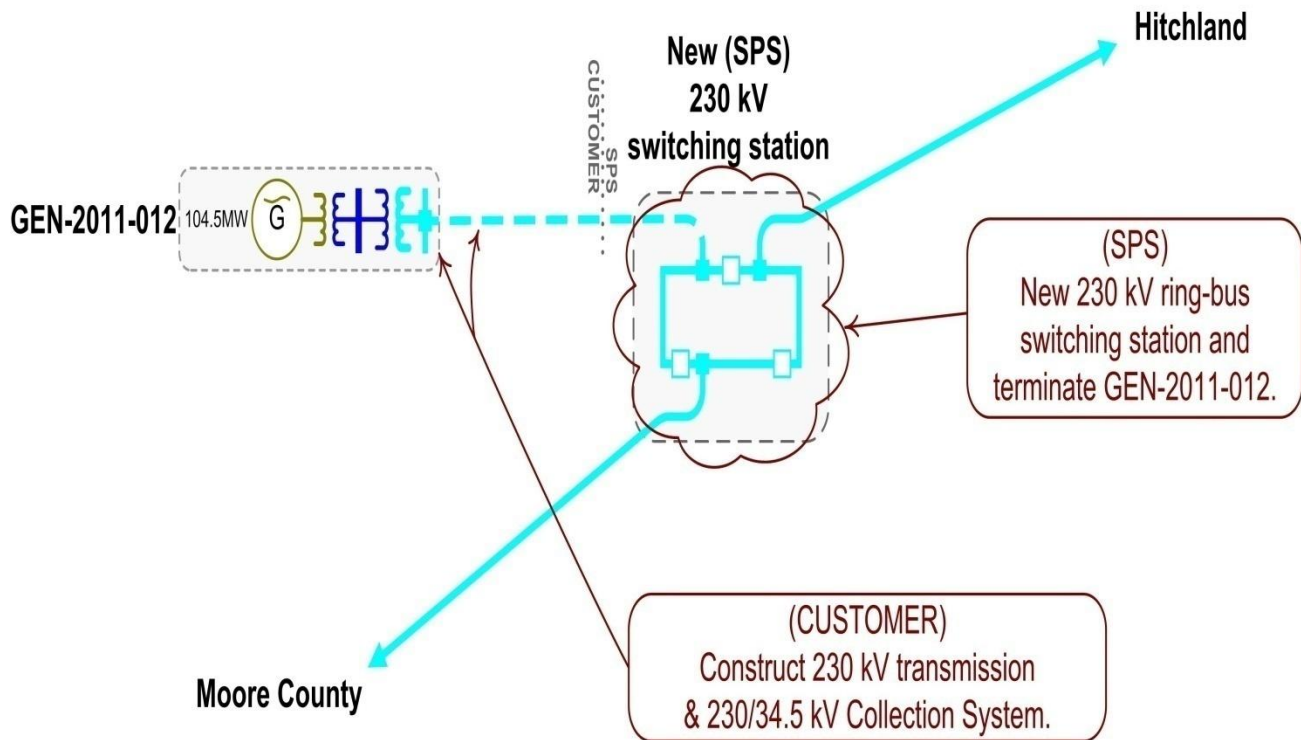
\* Planned      ^ Proposed



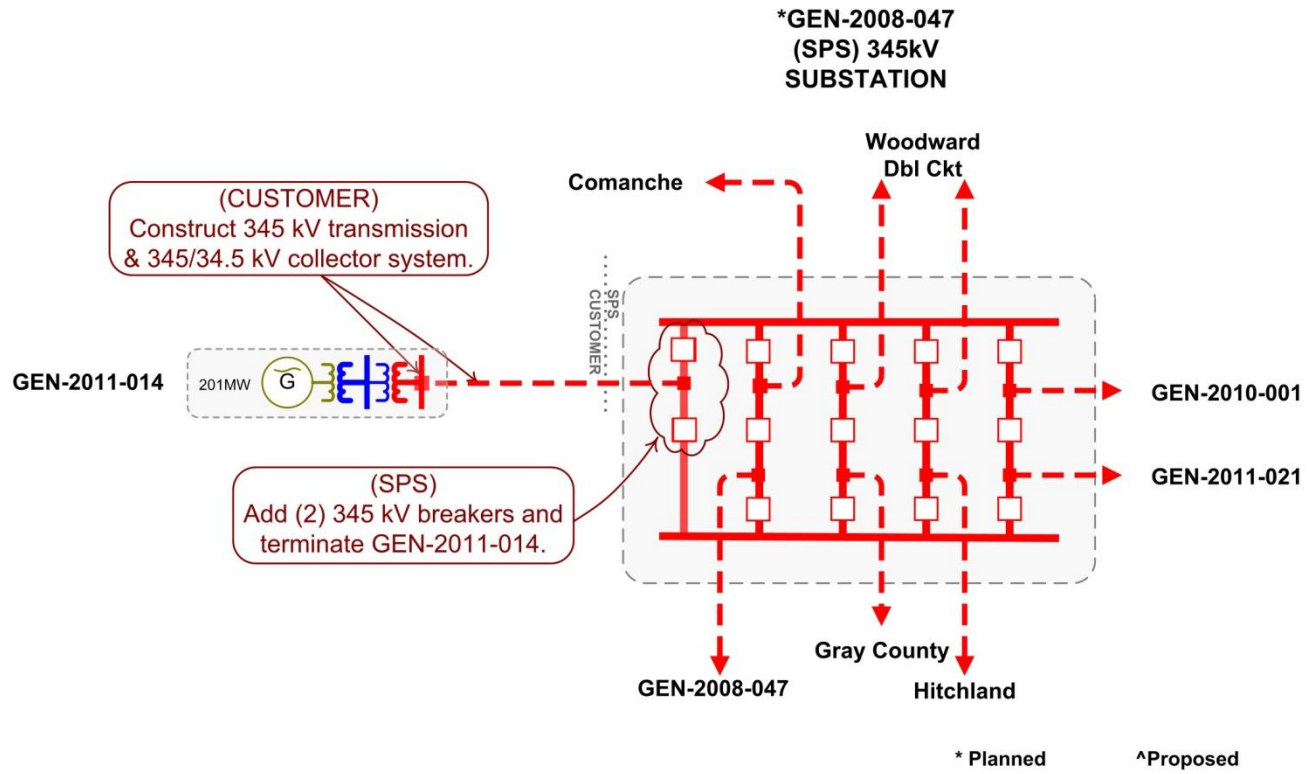
**GEN-2011-011**



**GEN-2011-012**

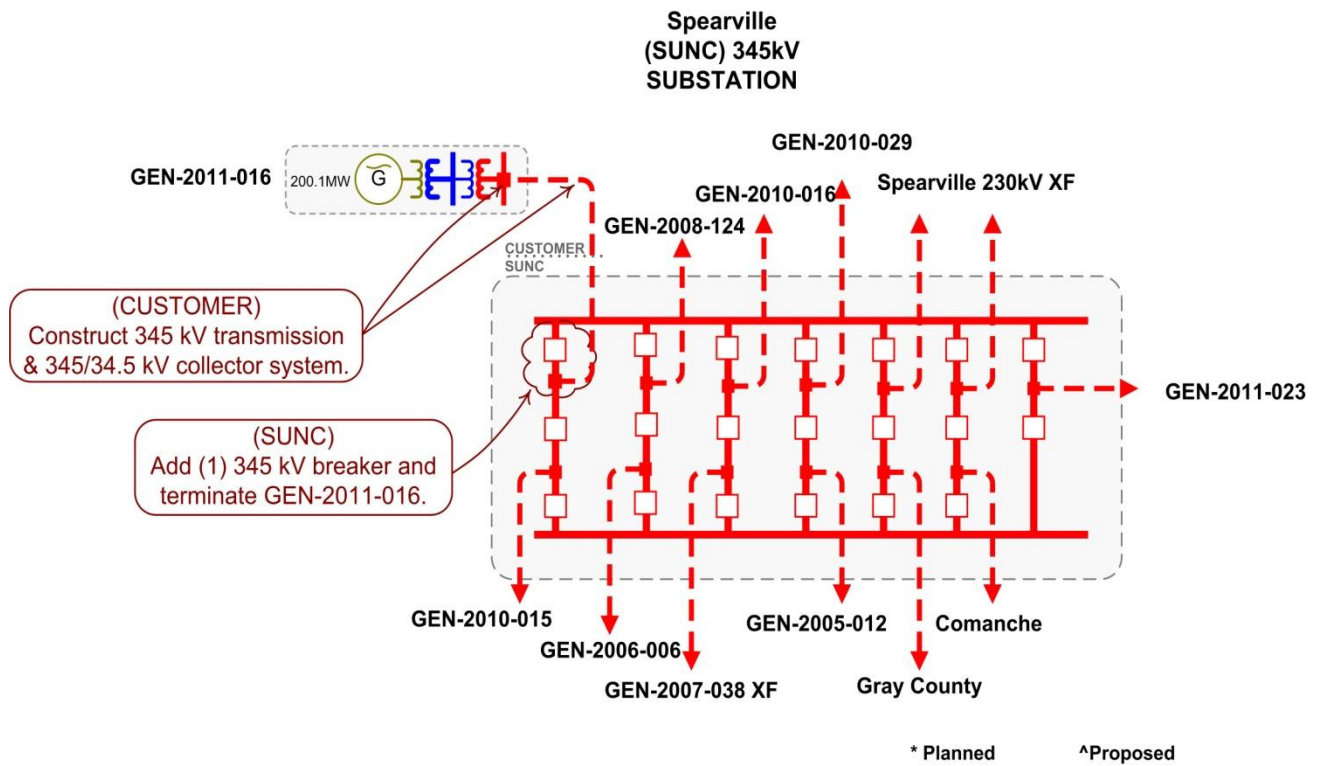


**GEN-2011-014**

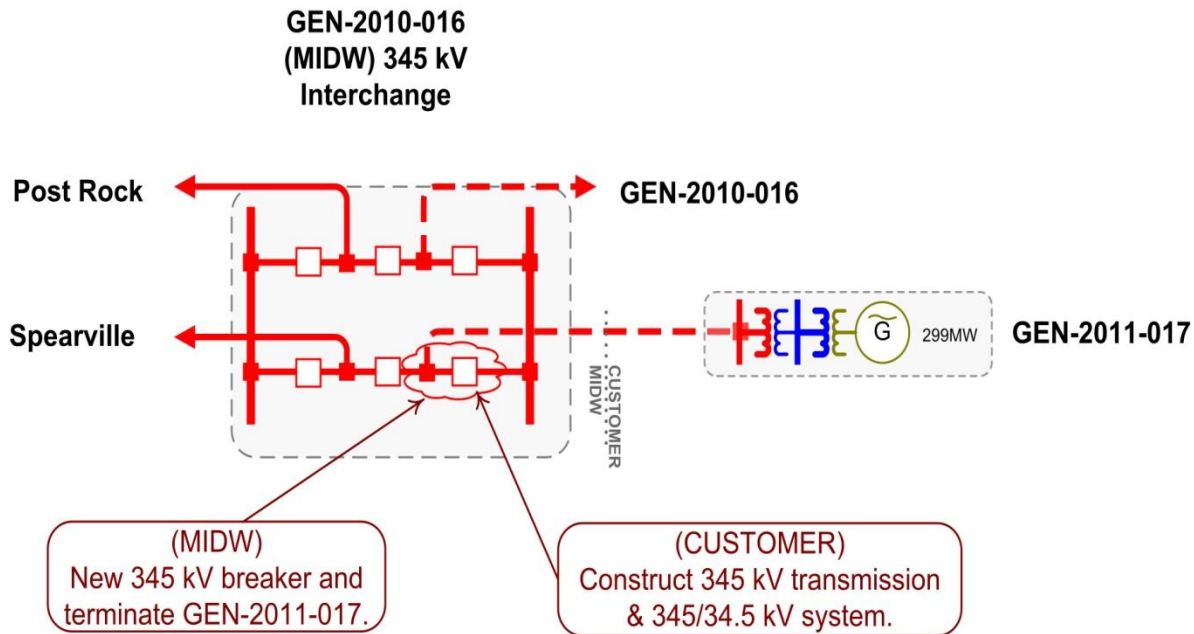


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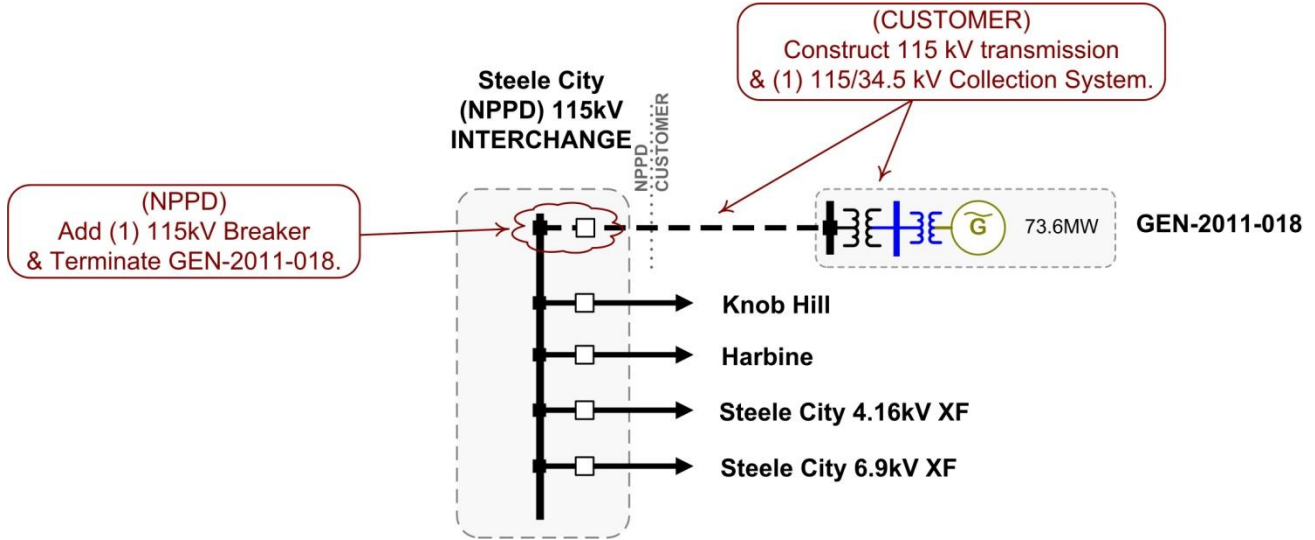




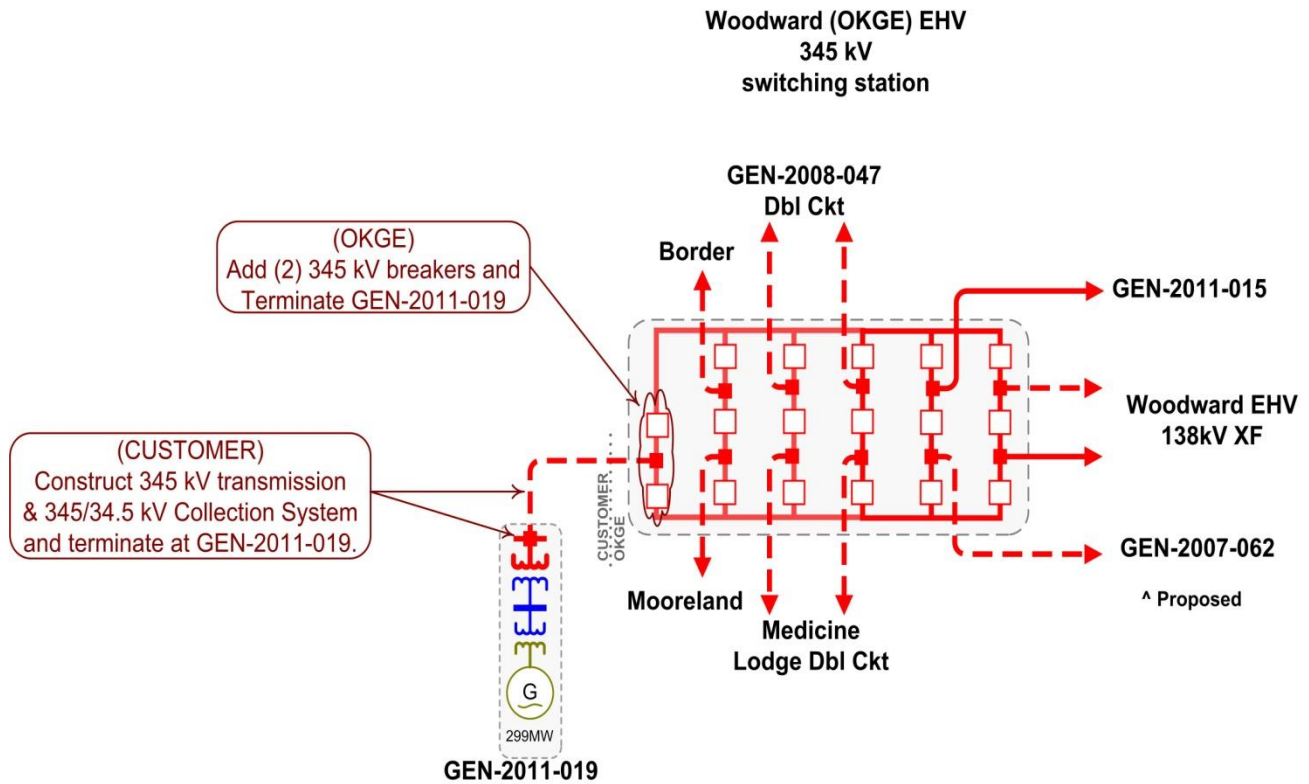
**GEN-2011-017**



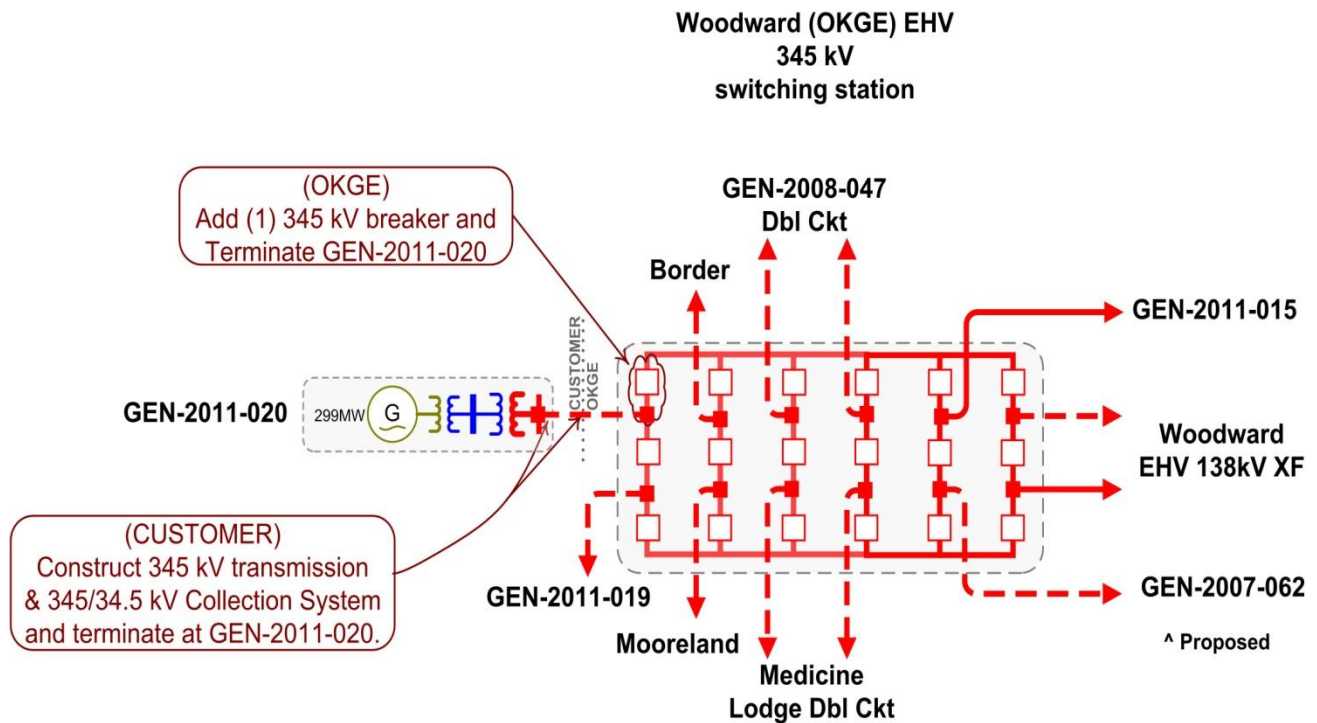
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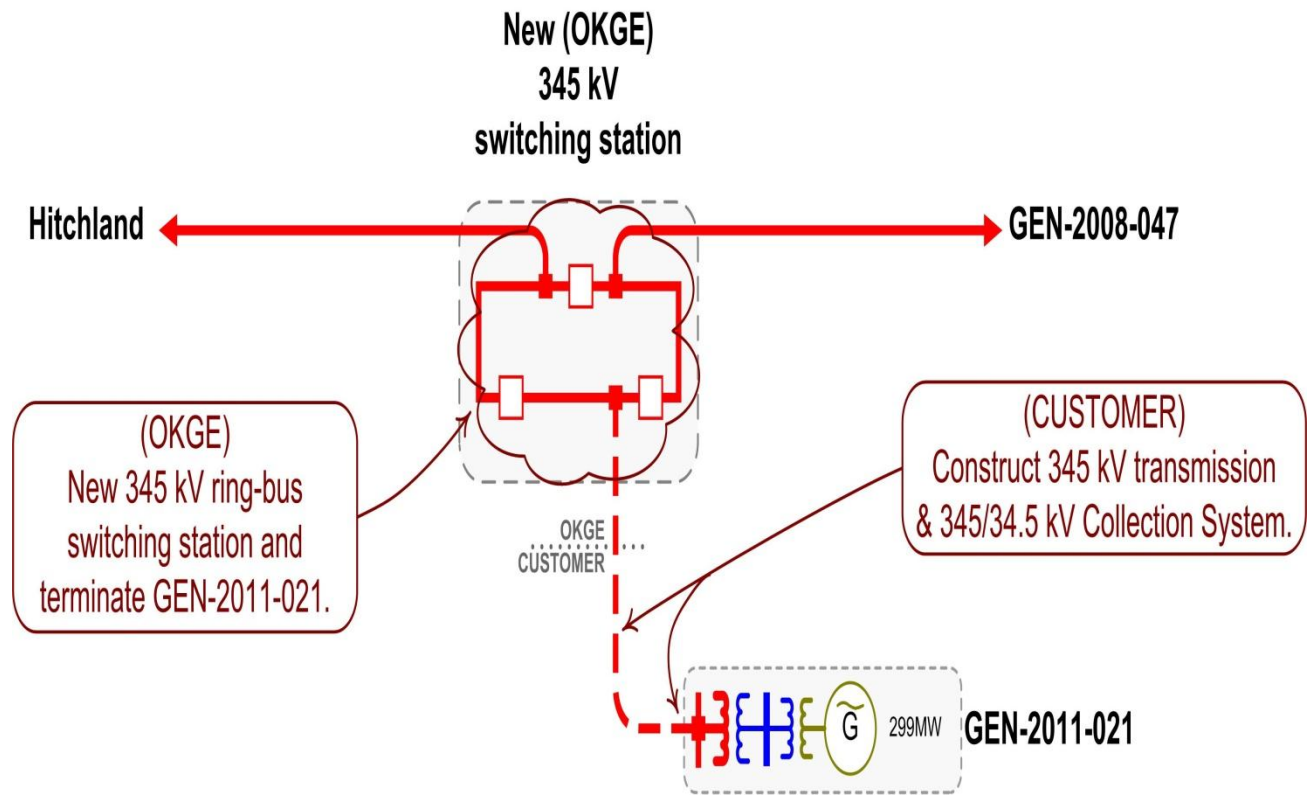
**GEN-2011-019**



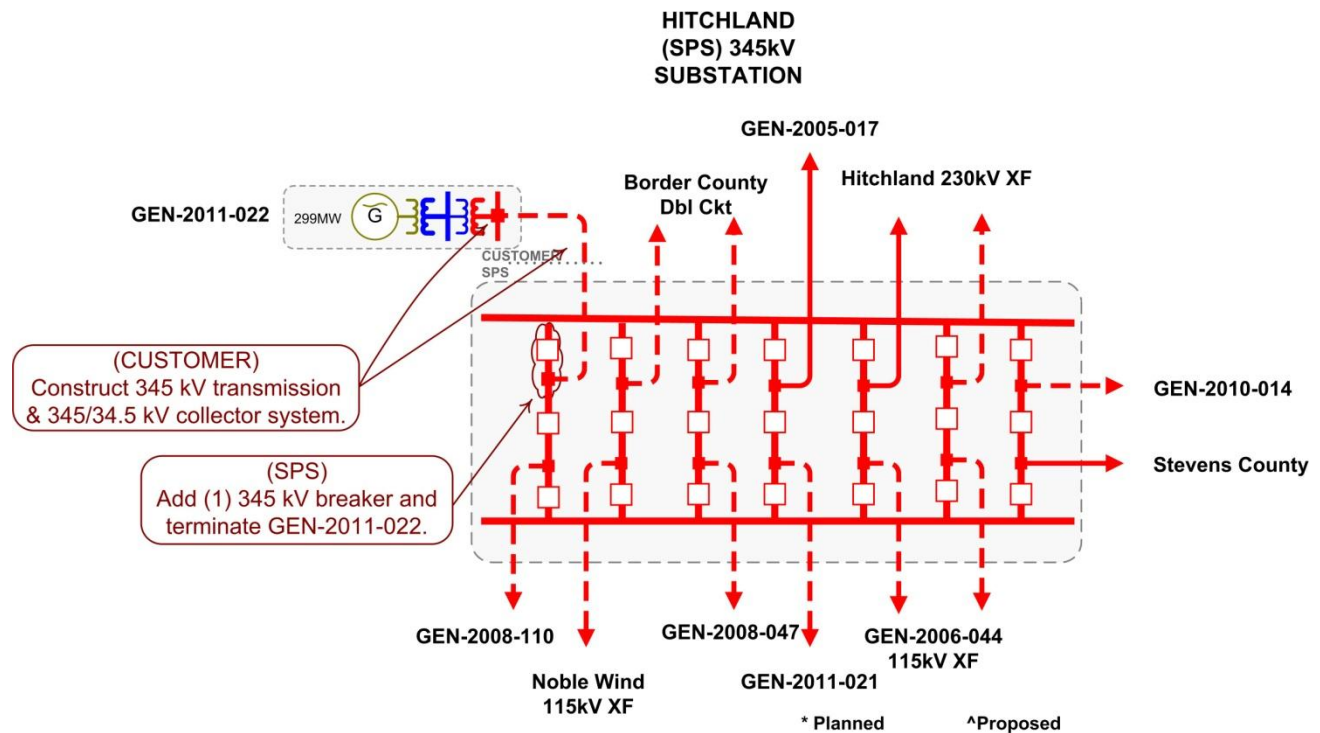
**GEN-2011-020**



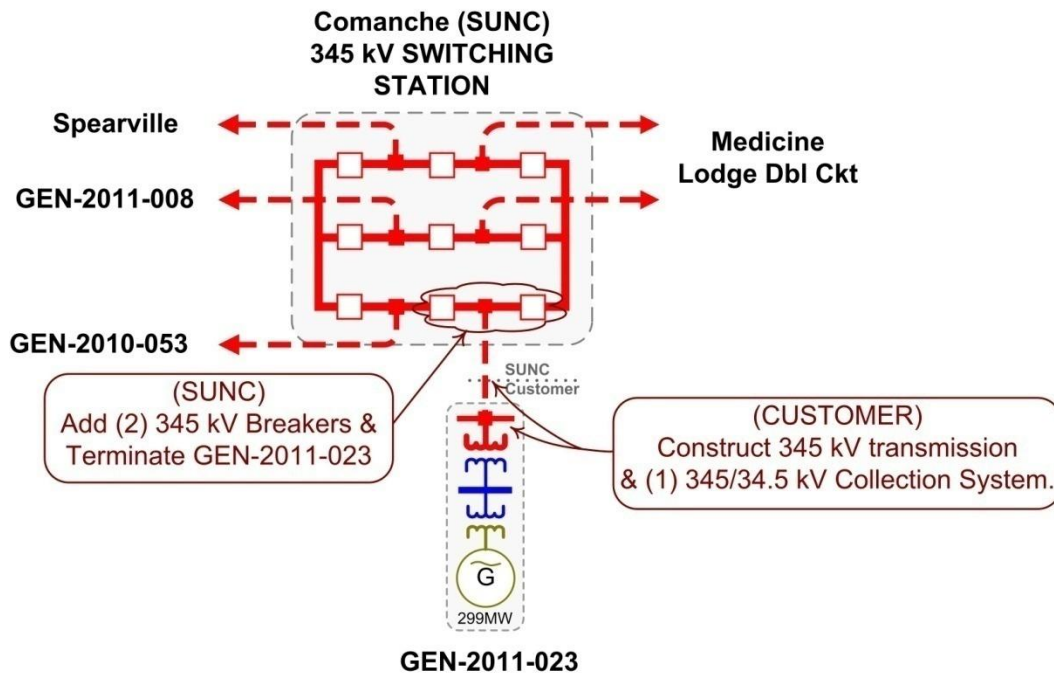
**GEN-2011-021**



**GEN-2011-022**

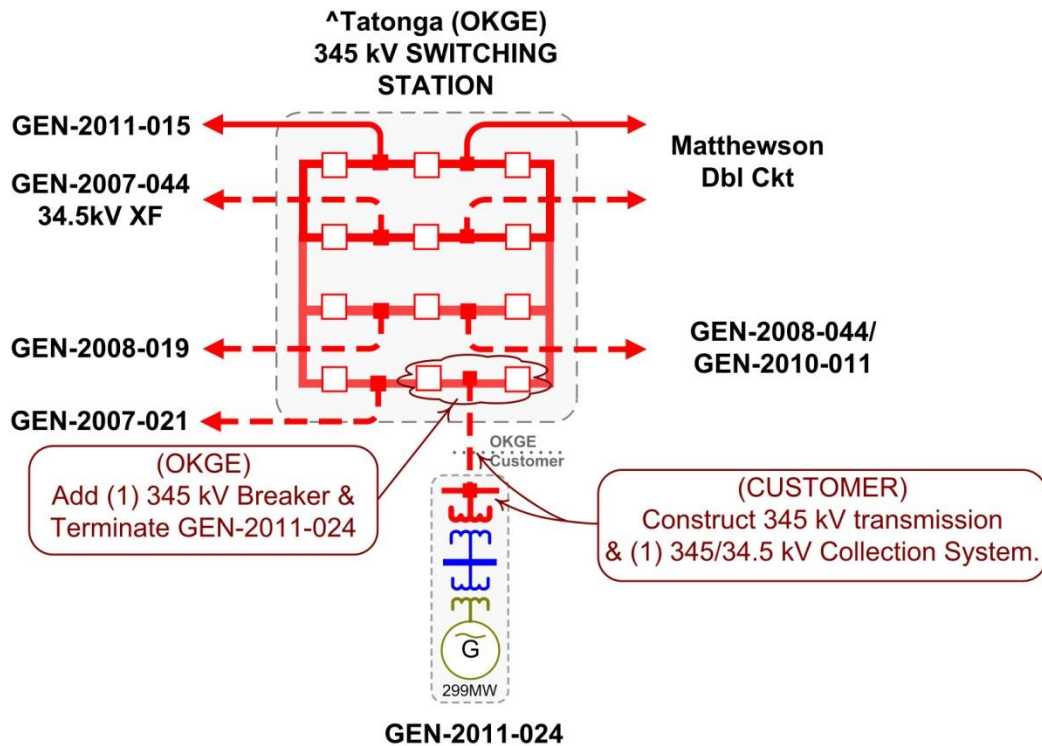


**GEN-2011-023**



\* Planned      ^ Proposed

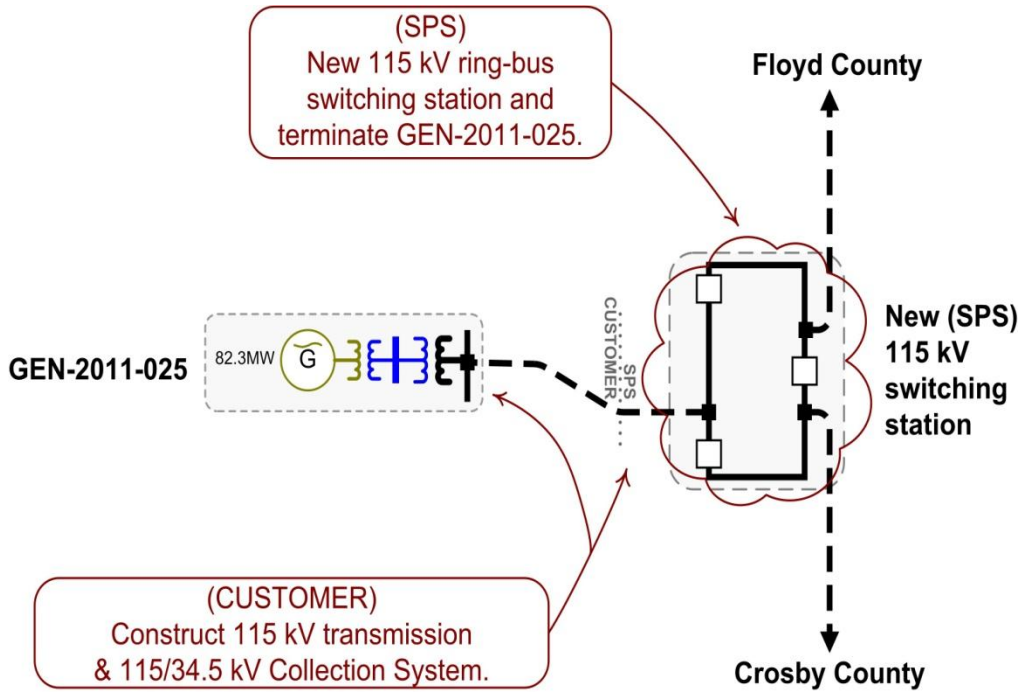
**GEN-2011-024**



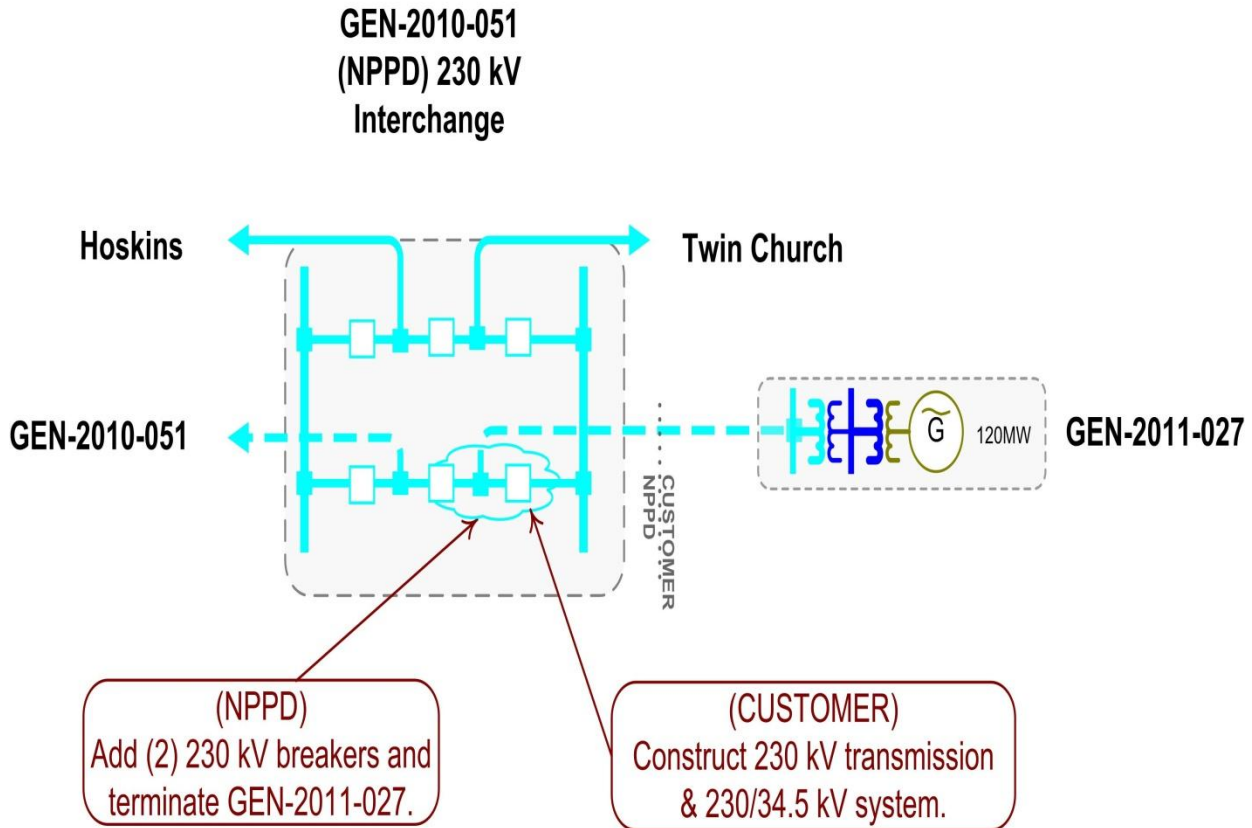
\* Planned      ^ Proposed



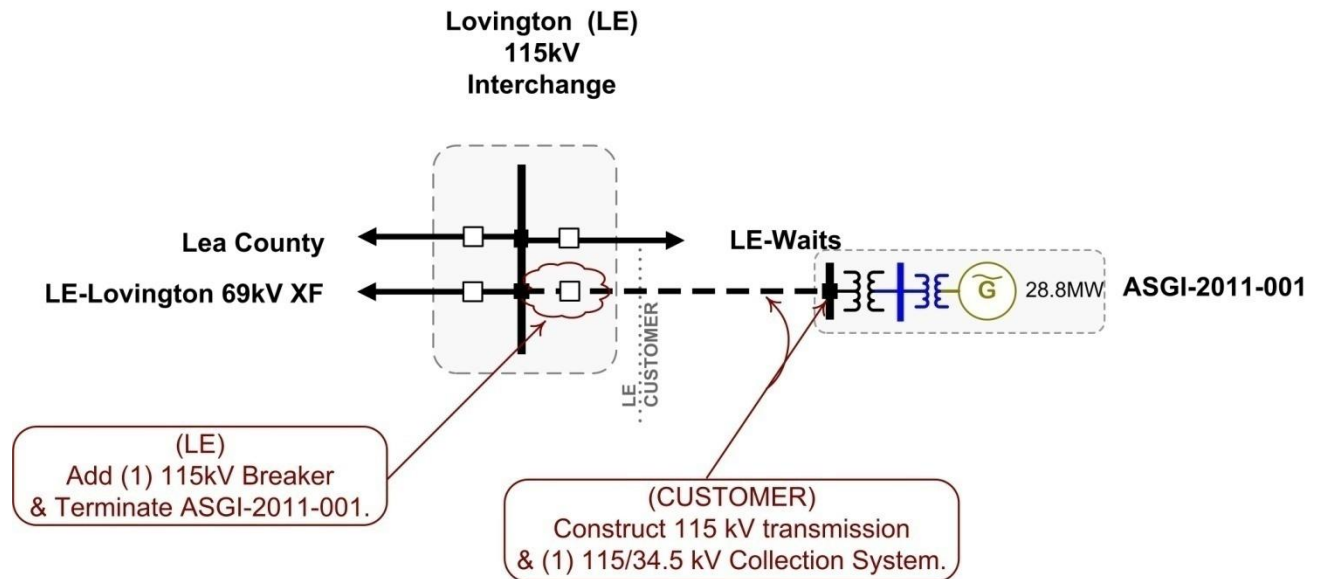
**GEN-2011-025**



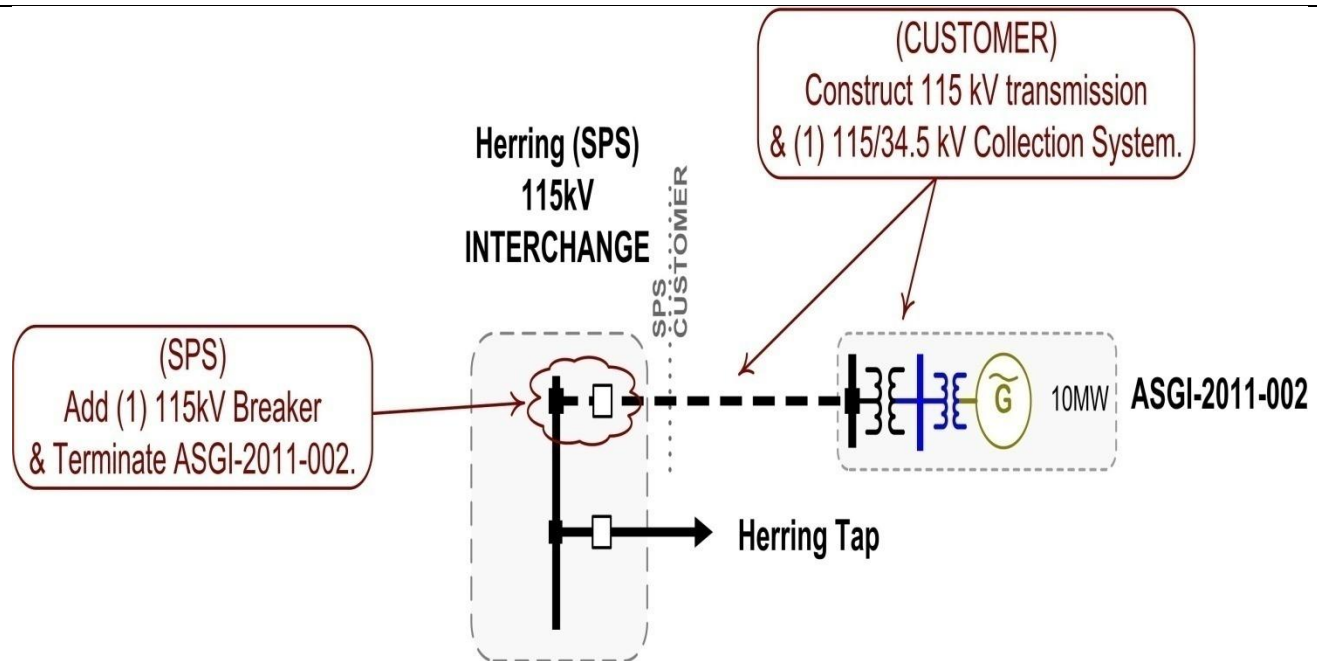
**GEN-2011-027**



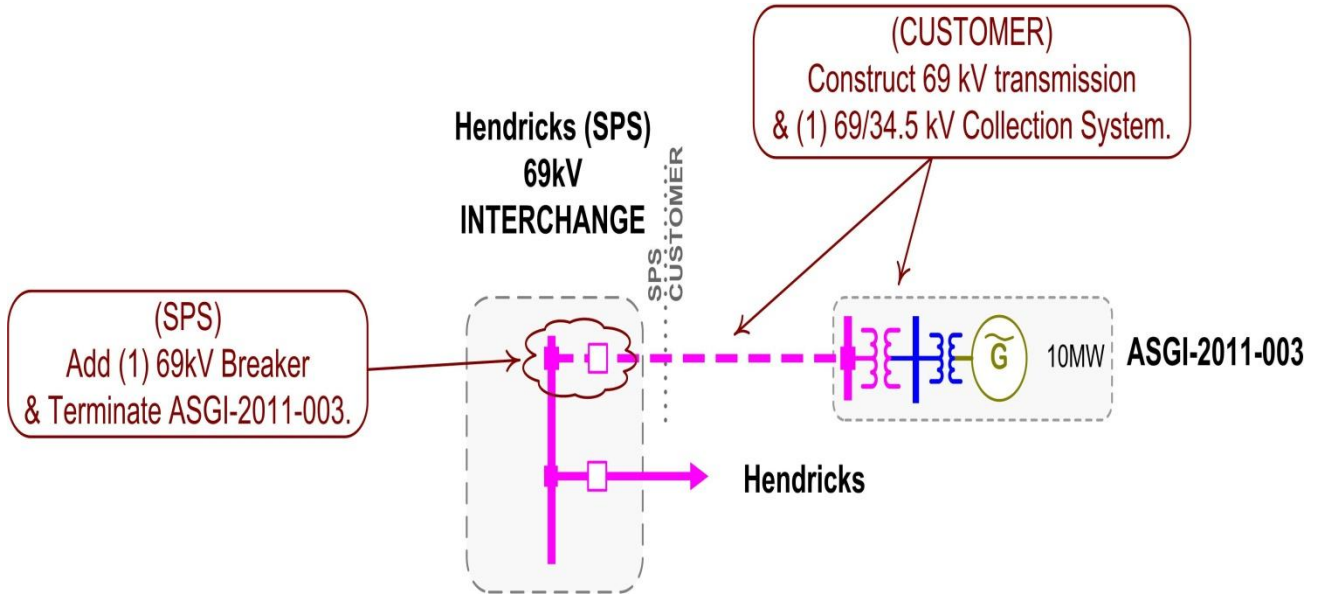
**ASGI-2011-001**



**ASGI-2011-002**



**ASGI-2011-003**





## **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 a 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.

# Appendix E. Cost Allocation Per Request

(Including Previously Allocated Network Upgrades\*)

Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
<b>ASGI 2011-002</b>			
ASGI 2011-002 Interconnection Costs See Online Diagram.	Current Study	\$0.00	\$0.00
Beaver - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Gracemont Transformer 345/138/13.8KV CKT 1 Priority Project: Gracemont Transformer 345/138/13.8KV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$8,000,000.00
Hitchland - Beaver 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Hitchland - Border 345 kV CKT Build approximately 105 miles of 345kV	Previously Allocated		\$227,747,964.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
	<b>Current Study Total</b>	<b>\$0.00</b>	

## ASGI 2011-003

ASGI 2011-003 Interconnection Costs See Online Diagram.	Current Study	\$0.00	\$0.00
Beaver - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00

\* 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
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Hitchland - Beaver 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
	<b>Current Study Total</b>	\$0.00	

### GEN-2010-020

GEN-2010-020 Interconnection Costs See Online Diagram.	Current Study	\$1,300,000.00	\$1,300,000.00
Beaver - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Hitchland - Beaver 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
	<b>Current Study Total</b>	\$1,300,000.00	

### GEN-2010-029

Benton - Wichita 345kV NRIS upgrade: Replace terminal equipment at Benton and Wichita	Current Study	\$272,762.96	\$1,183,000.00
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\* Withdrawal of higher queued projects will cause a restudy and may result in higher costs

<b>Interconnection Request and Upgrades</b>	<b>Upgrade Type</b>	<b>Allocated Cost</b>	<b>Upgrade Cost</b>
Circle - Reno 345kV Dbl CKT Build new 345kV line from Circle - Reno	Current Study	\$4,327,980.86	\$15,269,300.00
GEN-2010-029 Interconnection Costs See Online Diagram.	Current Study	\$8,000,000.00	\$8,000,000.00
Matthewson - Cimarron 345kV CKT 2 Build second 345kV circuit from Matthewson - Cimarron	Current Study	\$2,422,216.71	\$29,125,118.00
Mullergren - Circle 345kV Dbl CKT Build new 345kV line from Mullergren - Circle	Current Study	\$37,414,516.27	\$132,000,000.00
Mullergren 345/230kV Transformer CKT1 NRIS upgrade: Build new 345/230kV Transformer	Current Study	\$4,935,113.06	\$15,000,000.00
Spearville - Mullergren 345kV Dbl CKT Build new 345kV line from Spearville - Mullergren	Current Study	\$35,146,969.83	\$124,000,000.00
Tatonga - Matthewson 345kV CKT 2 Build second 345kV circuit from Tatonga - Matthewson	Current Study	\$7,508,127.11	\$105,965,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Beaver County - Gray County 345kV Build approximately 90 miles of 345kV from Beaver County - Gray County	Previously Allocated		\$170,209,050.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/115kV transformer Install new 345/115kV transformer at Medicine Lodge	Previously Allocated		\$10,000,000.00
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Post Rock 345/230/13.8KV Autotransformer CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Post Rock 345/230/13.8kV Autotransformer CKT 2 DISIS-2010-001 Restudy	Previously Allocated		\$13,749,527.00

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

<b>Interconnection Request and Upgrades</b>	<b>Upgrade Type</b>	<b>Allocated Cost</b>	<b>Upgrade Cost</b>
Spearville - PostRock 345KV CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Tuco Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: Tuco 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	Previously Allocated		\$11,250,000.00
	<b>Current Study Total</b>	\$100,027,686.80	
<b>GEN-2010-055</b>			
GEN-2010-055 Interconnection Costs See Online Diagram.	Current Study	\$500,000.00	\$500,000.00
	<b>Current Study Total</b>	\$500,000.00	
<b>GEN-2010-056</b>			
GEN-2010-056 Interconnection Costs See Online Diagram.	Current Study	\$8,360,000.00	\$8,360,000.00
	<b>Current Study Total</b>	\$8,360,000.00	
<b>GEN-2010-057</b>			
Benton - Wichita 345kV NRIS upgrade: Replace terminal equipment at Benton and Wichita	Current Study	\$132,139.67	\$1,183,000.00
GEN-2010-057 Interconnection Costs See Online Diagram.	Current Study	\$859,521.00	\$859,521.00
Rice County - Circle 230kV Conversion Convert from 115kV to 230kV operation	Current Study	\$9,889,234.00	\$9,889,234.00
Rice County - Lyons 115kV Rebuild line to 1000 Amps	Current Study	\$6,646,800.00	\$6,646,800.00
Rice County 230/115kV Substation Install 230/115kV transformer at Rice County substation	Current Study	\$7,835,455.00	\$7,835,455.00
Wheatland - Lyons 115kV Rerate circuit to 1000 amps	Current Study	\$76,103.00	\$76,103.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
	<b>Current Study Total</b>	\$25,439,252.67	
<b>GEN-2010-058</b>			
GEN-2010-058 Interconnection Costs See Online Diagram.	Current Study	\$1,206,694.00	\$1,206,694.00

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

<b>Interconnection Request and Upgrades</b>	<b>Upgrade Type</b>	<b>Allocated Cost</b>	<b>Upgrade Cost</b>
Beaver - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Hitchland - Beaver 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
	<b>Current Study Total</b>	\$1,206,694.00	

### GEN-2011-007

Benton - Wichita 345kV NRIS upgrade: Replace terminal equipment at Benton and Wichita	Current Study	\$12,979.20	\$1,183,000.00
GEN-2011-007 Interconnection Costs See Online Diagram.	Current Study	\$10,000,000.00	\$10,000,000.00
Matthewson - Cimarron 345kV CKT 2 Build second 345kV circuit from Matthewson - Cimarron	Current Study	\$5,014,836.15	\$29,125,118.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Tuco Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: Tuco 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	Previously Allocated		\$11,250,000.00
	<b>Current Study Total</b>	\$15,027,815.35	

### GEN-2011-008

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

<b>Interconnection Request and Upgrades</b>	<b>Upgrade Type</b>	<b>Allocated Cost</b>	<b>Upgrade Cost</b>
Circle - Reno 345kV Dbl CKT Build new 345kV line from Circle - Reno	Current Study	\$4,374,484.00	\$15,269,300.00
GEN-2011-008 Interconnection Costs See Online Diagram.	Current Study	\$8,000,000.00	\$8,000,000.00
Matthewson - Cimarron 345kV CKT 2 Build second 345kV circuit from Matthewson - Cimarron	Current Study	\$3,348,101.25	\$29,125,118.00
Mullergren - Circle 345kV Dbl CKT Build new 345kV line from Mullergreen - Circle	Current Study	\$37,816,526.48	\$132,000,000.00
Spearville - Mullergreen 345kV Dbl CKT Build new 345kV line from Spearville - Mullergreen	Current Study	\$35,524,615.79	\$124,000,000.00
Tatonga - Matthewson 345kV CKT 2 Build second 345kV circuit from Tatonga - Matthewson	Current Study	\$10,332,930.95	\$105,965,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Beaver County - Gray County 345kV Build approximately 90 miles of 345kV from Beaver County - Gray County	Previously Allocated		\$170,209,050.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Post Rock 345/230/13.8KV Autotransformer CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Post Rock 345/230/13.8kV Autotransformer CKT 2 DISIS-2010-001 Restudy	Previously Allocated		\$13,749,527.00
Spearville - PostRock 345KV CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Tuco Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: Tuco 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	Previously Allocated		\$11,250,000.00
	<b>Current Study Total</b>	<b>\$99,396,658.47</b>	

\* 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
<b>GEN-2011-010</b>			
GEN-2011-010 Interconnection Costs See Online Diagram.	Current Study	\$3,654,353.00	\$3,654,353.00
	<b>Current Study Total</b>	<b>\$3,654,353.00</b>	
<b>GEN-2011-011</b>			
GEN-2011-011 Interconnection Costs See Online Diagram.	Current Study	\$0.00	\$0.00
	<b>Current Study Total</b>	<b>\$0.00</b>	
<b>GEN-2011-012</b>			
Deaf Smith County Interchange - South Randle County 230kV NRIS upgrade: Replace line trap at Deaf Smith County Interchange	Current Study	\$17,084.45	\$100,000.00
GEN-2011-012 Interconnection Costs See Online Diagram.	Current Study	\$4,000,000.00	\$4,000,000.00
Matthewson - Cimarron 345kV CKT 2 Build second 345kV circuit from Matthewson - Cimarron	Current Study	\$439,304.76	\$29,125,118.00
Tatonga - Matthewson 345kV CKT 2 Build second 345kV circuit from Tatonga - Matthewson	Current Study	\$2,736,500.23	\$105,965,000.00
Beaver - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Beaver County - Gray County 345kV Build approximately 90 miles of 345kV from Beaver County - Gray County	Previously Allocated		\$170,209,050.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Finney Switching Station - Holcomb 345KV CKT 2 Per GEN-2006-044 Facility Study	Previously Allocated		\$6,299,839.00
Hitchland - Beaver 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Hitchland - Border 345 kV CKT Build approximately 105 miles of 345kV	Previously Allocated		\$227,747,964.00

\* 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
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
	<b>Current Study Total</b>	<b>\$7,192,889.44</b>	

## GEN-2011-014

Deaf Smith County Interchange - South Randle County 230kV NRIS upgrade: Replace line trap at Deaf Smith County Interchange	Current Study	\$17,847.82	\$100,000.00
GEN-2011-014 Interconnection Costs See Online Diagram.	Current Study	\$5,000,000.00	\$5,000,000.00
Matthewson - Cimarron 345kV CKT 2 Build second 345kV circuit from Matthewson - Cimarron	Current Study	\$1,256,944.01	\$29,125,118.00
Tatonga - Matthewson 345kV CKT 2 Build second 345kV circuit from Tatonga - Matthewson	Current Study	\$6,389,519.35	\$105,965,000.00
Beaver - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Beaver County - Gray County 345kV Build approximately 90 miles of 345kV from Beaver County - Gray County	Previously Allocated		\$170,209,050.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Finney Switching Station - Holcomb 345KV CKT 2 Per GEN-2006-044 Facility Study	Previously Allocated		\$6,299,839.00
Hitchland - Border 345 kV CKT Build approximately 105 miles of 345kV	Previously Allocated		\$227,747,964.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00

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

<b>Interconnection Request and Upgrades</b>	<b>Upgrade Type</b>	<b>Allocated Cost</b>	<b>Upgrade Cost</b>
Tuco Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: Tuco 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	Previously Allocated		\$11,250,000.00
	<b>Current Study Total</b>	<b>\$12,664,311.18</b>	

### **GEN-2011-016**

Benton - Wichita 345kV NRIS upgrade: Replace terminal equipment at Benton and Wichita	Current Study	\$121,227.98	\$1,183,000.00
Circle - Reno 345kV Dbl CKT Build new 345kV line from Circle - Reno	Current Study	\$1,923,547.05	\$15,269,300.00
GEN-2011-016 Interconnection Costs See Online Diagram.	Current Study	\$8,000,000.00	\$8,000,000.00
Matthewson - Cimarron 345kV CKT 2 Build second 345kV circuit from Matthewson - Cimarron	Current Study	\$1,076,540.76	\$29,125,118.00
Mullergren - Circle 345kV Dbl CKT Build new 345kV line from Mullergren - Circle	Current Study	\$16,628,673.90	\$132,000,000.00
Mullergren 345/230kV Transformer CKT1 NRIS upgrade: Build new 345/230kV Transformer	Current Study	\$2,193,383.58	\$15,000,000.00
Spearville - Mullergren 345kV Dbl CKT Build new 345kV line from Spearville - Mullergren	Current Study	\$15,620,875.48	\$124,000,000.00
Tatonga - Matthewson 345kV CKT 2 Build second 345kV circuit from Tatonga - Matthewson	Current Study	\$3,336,945.38	\$105,965,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Beaver County - Gray County 345kV Build approximately 90 miles of 345kV from Beaver County - Gray County	Previously Allocated		\$170,209,050.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/115kV transformer Install new 345/115kV transformer at Medicine Lodge	Previously Allocated		\$10,000,000.00

\* 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
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Post Rock 345/230/13.8KV Autotransformer CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Post Rock 345/230/13.8kV Autotransformer CKT 2 DISIS-2010-001 Restudy	Previously Allocated		\$13,749,527.00
Spearville - PostRock 345KV CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Tuco Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: Tuco 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	Previously Allocated		\$11,250,000.00
	<b>Current Study Total</b>	<b>\$48,901,194.13</b>	

### GEN-2011-017

Benton - Wichita 345kV NRIS upgrade: Replace terminal equipment at Benton and Wichita	Current Study	\$162,468.17	\$1,183,000.00
Circle - Reno 345kV Dbl CKT Build new 345kV line from Circle - Reno	Current Study	\$2,115,328.66	\$15,269,300.00
GEN-2011-017 Interconnection Costs See Online Diagram.	Current Study	\$19,000,000.00	\$19,000,000.00
Matthewson - Cimarron 345kV CKT 2 Build second 345kV circuit from Matthewson - Cimarron	Current Study	\$1,511,973.55	\$29,125,118.00
Mullergren - Circle 345kV Dbl CKT Build new 345kV line from Mullergren - Circle	Current Study	\$18,286,586.99	\$132,000,000.00
Mullergren 345/230kV Transformer CKT1 NRIS upgrade: Build new 345/230kV Transformer	Current Study	\$4,838,856.17	\$15,000,000.00
Spearville - Mullergren 345kV Dbl CKT Build new 345kV line from Spearville - Mullergren	Current Study	\$17,178,308.99	\$124,000,000.00
Tatonga - Matthewson 345kV CKT 2 Build second 345kV circuit from Tatonga - Matthewson	Current Study	\$4,424,929.85	\$105,965,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Beaver County - Gray County 345kV Build approximately 90 miles of 345kV from Beaver County - Gray County	Previously Allocated		\$170,209,050.00

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

<b>Interconnection Request and Upgrades</b>	<b>Upgrade Type</b>	<b>Allocated Cost</b>	<b>Upgrade Cost</b>
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/115kV transformer Install new 345/115kV transformer at Medicine Lodge	Previously Allocated		\$10,000,000.00
Post Rock 345/230/13.8KV Autotransformer CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Post Rock 345/230/13.8kV Autotransformer CKT 2 DISIS-2010-001 Restudy	Previously Allocated		\$13,749,527.00
Tuco Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: Tuco 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	Previously Allocated		\$11,250,000.00
	<b>Current Study Total</b>	\$67,518,452.38	

### GEN-2011-018

GEN-2011-018 Interconnection Costs See Online Diagram.	Current Study	\$900,000.00	\$900,000.00
	<b>Current Study Total</b>	\$900,000.00	

### GEN-2011-019

Benton - Wichita 345kV NRIS upgrade: Replace terminal equipment at Benton and Wichita	Current Study	\$119,324.25	\$1,183,000.00
Cleo Corner - Glass Mountain 138kV NRIS upgrade: Rebuild approximately 26 miles of 138kV line	Current Study	\$12,000,000.00	\$24,000,000.00
Dover Switch - Okeene 138kV NRIS upgrade: Rebuild approximately 27 miles of 138kV line	Current Study	\$5,500,000.00	\$11,000,000.00
El Reno - Roman Nose 138kV NRIS upgrade: Rebuild approximately 27 miles of 138kV line	Current Study	\$12,500,000.00	\$25,000,000.00
Elk City Terminal Equipment NRIS upgrade: Replace terminal equipment at Elk city	Current Study	\$189,824.50	\$379,649.00
Evans Energy Center - Maize 138kV NRIS upgrade: Rebuild approximately 2.6 miles of 138kV	Current Study	\$2,093,059.50	\$4,186,119.00

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

<b>Interconnection Request and Upgrades</b>	<b>Upgrade Type</b>	<b>Allocated Cost</b>	<b>Upgrade Cost</b>
GEN-2011-019 Interconnection Costs See Online Diagram.	Current Study	\$3,654,353.00	\$3,654,353.00
Glass Mountain - Mooreland 138kV NRIS upgrade: Rebuild approximately 24 miles of 138kV line	Current Study	\$8,529,950.00	\$17,059,900.00
Matthewson - Cimarron 345kV CKT 2 Build second 345kV circuit from Matthewson - Cimarron	Current Study	\$2,295,525.12	\$29,125,118.00
Roman Nose - Southard 138kV NRIS upgrade: Rebuild approximately 17 miles of 138kV line	Current Study	\$8,000,000.00	\$16,000,000.00
Tatonga - Matthewson 345kV CKT 2 Build second 345kV circuit from Tatonga - Matthewson	Current Study	\$11,673,716.68	\$105,965,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Tuco Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: Tuco 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	Previously Allocated		\$11,250,000.00
	<b>Current Study Total</b>	<b>\$66,555,753.05</b>	

## GEN-2011-020

Benton - Wichita 345kV NRIS upgrade: Replace terminal equipment at Benton and Wichita	Current Study	\$119,324.25	\$1,183,000.00
Cleo Corner - Glass Mountain 138kV NRIS upgrade: Rebuild approximately 26 miles of 138kV line	Current Study	\$12,000,000.00	\$24,000,000.00
Dover Switch - Okeene 138kV NRIS upgrade: Rebuild approximately 27 miles of 138kV line	Current Study	\$5,500,000.00	\$11,000,000.00
El Reno - Roman Nose 138kV NRIS upgrade: Rebuild approximately 27 miles of 138kV line	Current Study	\$12,500,000.00	\$25,000,000.00

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

<b>Interconnection Request and Upgrades</b>	<b>Upgrade Type</b>	<b>Allocated Cost</b>	<b>Upgrade Cost</b>
Elk City Terminal Equipment NRIS upgrade: Replace terminal equipment at Elk city	Current Study	\$189,824.50	\$379,649.00
Evans Energy Center - Maize 138kV NRIS upgrade: Rebuild approximately 2.6 miles of 138kV	Current Study	\$2,093,059.50	\$4,186,119.00
GEN-2011-020 Interconnection Costs See Online Diagram.	Current Study	\$3,654,353.00	\$3,654,353.00
Glass Mountain - Mooreland 138kV NRIS upgrade: Rebuild approximately 24 miles of 138kV line	Current Study	\$8,529,950.00	\$17,059,900.00
Matthewson - Cimarron 345kV CKT 2 Build second 345kV circuit from Matthewson - Cimarron	Current Study	\$2,295,525.12	\$29,125,118.00
Roman Nose - Southard 138kV NRIS upgrade: Rebuild approximately 17 miles of 138kV line	Current Study	\$8,000,000.00	\$16,000,000.00
Tatonga - Matthewson 345kV CKT 2 Build second 345kV circuit from Tatonga - Matthewson	Current Study	\$11,673,716.68	\$105,965,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Tuco Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: Tuco 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	Previously Allocated		\$11,250,000.00
	<b>Current Study Total</b>	<b>\$66,555,753.05</b>	

### GEN-2011-021

Deaf Smith County Interchange - South Randle County 230kV NRIS upgrade: Replace line trap at Deaf Smith County Interchange	Current Study	\$30,539.16	\$100,000.00
GEN-2011-021 Interconnection Costs See Online Diagram.	Current Study	\$10,000,000.00	\$10,000,000.00

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

<b>Interconnection Request and Upgrades</b>	<b>Upgrade Type</b>	<b>Allocated Cost</b>	<b>Upgrade Cost</b>
Matthewson - Cimarron 345kV CKT 2 Build second 345kV circuit from Matthewson - Cimarron	Current Study	\$1,709,373.06	\$29,125,118.00
Tatonga - Matthewson 345kV CKT 2 Build second 345kV circuit from Tatonga - Matthewson	Current Study	\$9,002,304.42	\$105,965,000.00
Beaver - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Beaver County - Gray County 345kV Build approximately 90 miles of 345kV from Beaver County - Gray County	Previously Allocated		\$170,209,050.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Finney Switching Station - Holcomb 345KV CKT 2 Per GEN-2006-044 Facility Study	Previously Allocated		\$6,299,839.00
Hitchland - Beaver 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Hitchland - Border 345 kV CKT Build approximately 105 miles of 345kV	Previously Allocated		\$227,747,964.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
	<b>Current Study Total</b>	<b>\$20,742,216.64</b>	

## GEN-2011-022

Deaf Smith County Interchange - South Randle County 230kV NRIS upgrade: Replace line trap at Deaf Smith County Interchange	Current Study	\$34,528.58	\$100,000.00
GEN-2011-022 Interconnection Costs See Online Diagram.	Current Study	\$3,281,972.00	\$3,281,972.00
Matthewson - Cimarron 345kV CKT 2 Build second 345kV circuit from Matthewson - Cimarron	Current Study	\$1,549,319.40	\$29,125,118.00

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

<b>Interconnection Request and Upgrades</b>	<b>Upgrade Type</b>	<b>Allocated Cost</b>	<b>Upgrade Cost</b>
Tatonga - Matthewson 345kV CKT 2 Build second 345kV circuit from Tatonga - Matthewson	Current Study	\$8,498,994.87	\$105,965,000.00
Beaver - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Beaver County - Gray County 345kV Build approximately 90 miles of 345kV from Beaver County - Gray County	Previously Allocated		\$170,209,050.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Finney Switching Station - Holcomb 345KV CKT 2 Per GEN-2006-044 Facility Study	Previously Allocated		\$6,299,839.00
Hitchland - Beaver 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Hitchland - Border 345 kV CKT Build approximately 105 miles of 345kV	Previously Allocated		\$227,747,964.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
	<b>Current Study Total</b>	<b>\$13,364,814.85</b>	

### **GEN-2011-023**

Benton - Wichita 345kV NRIS upgrade: Replace terminal equipment at Benton and Wichita	Current Study	\$187,121.84	\$1,183,000.00
Circle - Reno 345kV Dbl CKT Build new 345kV line from Circle - Reno	Current Study	\$2,527,959.44	\$15,269,300.00
GEN-2011-023 Interconnection Costs See Online Diagram.	Current Study	\$5,000,000.00	\$5,000,000.00
Matthewson - Cimarron 345kV CKT 2 Build second 345kV circuit from Matthewson - Cimarron	Current Study	\$1,638,949.45	\$29,125,118.00

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



<b>Interconnection Request and Upgrades</b>	<b>Upgrade Type</b>	<b>Allocated Cost</b>	<b>Upgrade Cost</b>
Mullergren - Circle 345kV Dbl CKT Build new 345kV line from Mullergren - Circle	Current Study	\$21,853,696.36	\$132,000,000.00
Mullergren 345/230kV Transformer CKT1 NRIS upgrade: Build new 345/230kV Transformer	Current Study	\$3,032,647.19	\$15,000,000.00
Spearville - Mullergren 345kV Dbl CKT Build new 345kV line from Spearville - Mullergren	Current Study	\$20,529,229.91	\$124,000,000.00
Tatonga - Matthewson 345kV CKT 2 Build second 345kV circuit from Tatonga - Matthewson	Current Study	\$5,068,585.34	\$105,965,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Beaver County - Gray County 345kV Build approximately 90 miles of 345kV from Beaver County - Gray County	Previously Allocated		\$170,209,050.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Post Rock 345/230/13.8KV Autotransformer CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Post Rock 345/230/13.8kV Autotransformer CKT 2 DISIS-2010-001 Restudy	Previously Allocated		\$13,749,527.00
Spearville - PostRock 345KV CKT 1 Balanced Portfolio: Spearville - PostRock - Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Tuco Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: Tuco 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	Previously Allocated		\$11,250,000.00
	<b>Current Study Total</b>	<b>\$59,838,189.53</b>	

#### **GEN-2011-024**

Benton - Wichita 345kV NRIS upgrade: Replace terminal equipment at Benton and Wichita	Current Study	\$55,651.68	\$1,183,000.00
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\* Withdrawal of higher queued projects will cause a restudy and may result in higher costs

<b>Interconnection Request and Upgrades</b>	<b>Upgrade Type</b>	<b>Allocated Cost</b>	<b>Upgrade Cost</b>
GEN-2011-024 Interconnection Costs See Online Diagram.	Current Study	\$5,000,000.00	\$5,000,000.00
Matthewson - Cimarron 345kV CKT 2 Build second 345kV circuit from Matthewson - Cimarron	Current Study	\$4,566,508.67	\$29,125,118.00
Tatonga - Matthewson 345kV CKT 2 Build second 345kV circuit from Tatonga - Matthewson	Current Study	\$25,318,729.13	\$105,965,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Tuco Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: Tuco 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	Previously Allocated		\$11,250,000.00
	<b>Current Study Total</b>	<b>\$34,940,889.48</b>	

## GEN-2011-025

GEN-2011-025 Interconnection Costs See Online Diagram.	Current Study	\$4,249,629.00	\$4,249,629.00
Beaver - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Hitchland - Beaver 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Medicine Lodge - Wichita 345KV Dbl CKT Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Woodward 345KV Dbl CKT Priority Project: Med Lodge - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00

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

<b>Interconnection Request and Upgrades</b>	<b>Upgrade Type</b>	<b>Allocated Cost</b>	<b>Upgrade Cost</b>
Medicine Lodge 345/138KV Transformer CKT 1 Priority Project: Spearville - Comanche - Med Lodge - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$356,300,000.00
	<b>Current Study Total</b>	\$4,249,629.00	
<b>GEN-2011-027</b>			
GEN-2011-027 Interconnection Costs See Online Diagram.	Current Study	\$2,800,000.00	\$2,800,000.00
	<b>Current Study Total</b>	\$2,800,000.00	
<b>TOTAL CURRENT STUDY COSTS:</b>		<b>\$661,136,553.02</b>	

\* 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

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## ASGI 2011-002 Interconnection Costs \$0.00

See Oonline Diagram.

ASGI 2011-002 \$0.00

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**Total Allocated Costs \$0.00**

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## ASGI 2011-003 Interconnection Costs \$0.00

See Oonline Diagram.

ASGI 2011-003 \$0.00

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**Total Allocated Costs \$0.00**

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## Benton - Wichita 345kV \$1,183,000.00

NRIS upgrade: Replace terminal equipment at Benton and Wichita

GEN-2010-029 \$272,762.96

GEN-2010-057 \$132,139.67

GEN-2011-007 \$12,979.20

GEN-2011-016 \$121,227.98

GEN-2011-017 \$162,468.17

GEN-2011-019 \$119,324.25

GEN-2011-020 \$119,324.25

GEN-2011-023 \$187,121.84

GEN-2011-024 \$55,651.68

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**Total Allocated Costs \$1,183,000.00**

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## Circle - Reno 345kV Dbl CKT \$15,269,300.00

Build new 345kV line from Circle - Reno

GEN-2010-029 \$4,327,980.86

GEN-2011-008 \$4,374,484.00

GEN-2011-016 \$1,923,547.05

GEN-2011-017 \$2,115,328.66

GEN-2011-023 \$2,527,959.44

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**Total Allocated Costs \$15,269,300.00**

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## Cleo Corner - Glass Mountain 138kV \$24,000,000.00

NRIS upgrade: Rebuild approximately 26 miles of 138kV line

GEN-2011-019 \$12,000,000.00

GEN-2011-020 \$12,000,000.00

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

	<b>Total Allocated Costs</b>	<b>\$24,000,000.00</b>
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<b>Elk City Terminal Equipment</b>		<b>\$379,649.00</b>
NRIS upgrade: Replace terminal equipment at Elk city		
	GEN-2011-019	\$189,824.50
	GEN-2011-020	\$189,824.50
	<b>Total Allocated Costs</b>	<b>\$379,649.00</b>
<hr/>		
<b>Deaf Smith County Interchange - South Randle County 230kV</b>		<b>\$100,000.00</b>
NRIS upgrade: Replace line trap at Deaf Smith County Interchange		
	GEN-2011-012	\$17,084.45
	GEN-2011-014	\$17,847.82
	GEN-2011-021	\$30,539.16
	GEN-2011-022	\$34,528.58
	<b>Total Allocated Costs</b>	<b>\$100,000.00</b>
<hr/>		
<b>Dover Switch - Okeene 138kV</b>		<b>\$11,000,000.00</b>
NRIS upgrade: Rebuild approximately 27 miles of 138kV line		
	GEN-2011-019	\$5,500,000.00
	GEN-2011-020	\$5,500,000.00
	<b>Total Allocated Costs</b>	<b>\$11,000,000.00</b>
<hr/>		
<b>El Reno - Roman Nose 138kV</b>		<b>\$25,000,000.00</b>
NRIS upgrade: Rebuild approximately 27 miles of 138kV line		
	GEN-2011-019	\$12,500,000.00
	GEN-2011-020	\$12,500,000.00
	<b>Total Allocated Costs</b>	<b>\$25,000,000.00</b>
<hr/>		
<b>Evans Energy Center - Maize 138kV</b>		<b>\$4,186,119.00</b>
NRIS upgrade: Rebuild approximately 2.6 miles of 138kV		
	GEN-2011-019	\$2,093,059.50
	GEN-2011-020	\$2,093,059.50
	<b>Total Allocated Costs</b>	<b>\$4,186,119.00</b>
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<b>GEN-2010-020 Interconnection Costs</b>		<b>\$1,300,000.00</b>
See Oonline Diagram.		
	GEN-2010-020	\$1,300,000.00
	<b>Total Allocated Costs</b>	<b>\$1,300,000.00</b>
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<b>GEN-2010-029 Interconnection Costs</b>		<b>\$8,000,000.00</b>
See Oonline Diagram.		

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

	GEN-2010-029	\$8,000,000.00
	<b>Total Allocated Costs</b>	<b>\$8,000,000.00</b>
<hr/>		
<b>GEN-2010-055 Interconnection Costs</b>		<b>\$500,000.00</b>
See Online Diagram.		
	GEN-2010-055	\$500,000.00
	<b>Total Allocated Costs</b>	<b>\$500,000.00</b>
<hr/>		
<b>GEN-2010-056 Interconnection Costs</b>		<b>\$8,360,000.00</b>
See Online Diagram.		
	GEN-2010-056	\$8,360,000.00
	<b>Total Allocated Costs</b>	<b>\$8,360,000.00</b>
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<b>GEN-2010-057 Interconnection Costs</b>		<b>\$859,521.00</b>
See Online Diagram.		
	GEN-2010-057	\$859,521.00
	<b>Total Allocated Costs</b>	<b>\$859,521.00</b>
<hr/>		
<b>GEN-2010-058 Interconnection Costs</b>		<b>\$1,206,694.00</b>
See Online Diagram.		
	GEN-2010-058	\$1,206,694.00
	<b>Total Allocated Costs</b>	<b>\$1,206,694.00</b>
<hr/>		
<b>GEN-2011-007 Interconnection Costs</b>		<b>\$10,000,000.00</b>
See Online Diagram.		
	GEN-2011-007	\$10,000,000.00
	<b>Total Allocated Costs</b>	<b>\$10,000,000.00</b>
<hr/>		
<b>GEN-2011-008 Interconnection Costs</b>		<b>\$8,000,000.00</b>
See Online Diagram.		
	GEN-2011-008	\$8,000,000.00
	<b>Total Allocated Costs</b>	<b>\$8,000,000.00</b>
<hr/>		
<b>GEN-2011-010 Interconnection Costs</b>		<b>\$3,654,353.00</b>
See Online Diagram.		
	GEN-2011-010	\$3,654,353.00
	<b>Total Allocated Costs</b>	<b>\$3,654,353.00</b>
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<b>GEN-2011-011 Interconnection Costs</b>		<b>\$0.00</b>
See Online Diagram.		
	GEN-2011-011	\$0.00

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

	<b>Total Allocated Costs</b>	<b>\$0.00</b>
<b>GEN-2011-012 Interconnection Costs</b>		<b>\$4,000,000.00</b>
See Oonline Diagram.		
	GEN-2011-012	\$4,000,000.00
	<b>Total Allocated Costs</b>	<b>\$4,000,000.00</b>
<b>GEN-2011-014 Interconnection Costs</b>		<b>\$5,000,000.00</b>
See Oonline Diagram.		
	GEN-2011-014	\$5,000,000.00
	<b>Total Allocated Costs</b>	<b>\$5,000,000.00</b>
<b>GEN-2011-016 Interconnection Costs</b>		<b>\$8,000,000.00</b>
See Oonline Diagram.		
	GEN-2011-016	\$8,000,000.00
	<b>Total Allocated Costs</b>	<b>\$8,000,000.00</b>
<b>GEN-2011-017 Interconnection Costs</b>		<b>\$19,000,000.00</b>
See Oonline Diagram.		
	GEN-2011-017	\$19,000,000.00
	<b>Total Allocated Costs</b>	<b>\$19,000,000.00</b>
<b>GEN-2011-018 Interconnection Costs</b>		<b>\$900,000.00</b>
See Oonline Diagram.		
	GEN-2011-018	\$900,000.00
	<b>Total Allocated Costs</b>	<b>\$900,000.00</b>
<b>GEN-2011-019 Interconnection Costs</b>		<b>\$3,654,353.00</b>
See Oonline Diagram.		
	GEN-2011-019	\$3,654,353.00
	<b>Total Allocated Costs</b>	<b>\$3,654,353.00</b>
<b>GEN-2011-020 Interconnection Costs</b>		<b>\$3,654,353.00</b>
See Oonline Diagram.		
	GEN-2011-020	\$3,654,353.00
	<b>Total Allocated Costs</b>	<b>\$3,654,353.00</b>
<b>GEN-2011-021 Interconnection Costs</b>		<b>\$10,000,000.00</b>
See Oonline Diagram.		
	GEN-2011-021	\$10,000,000.00

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



	<b>Total Allocated Costs</b>	<b>\$10,000,000.00</b>
<b>GEN-2011-022 Interconnection Costs</b>		<b>\$3,281,972.00</b>
See Oonline Diagram.		
	GEN-2011-022	\$3,281,972.00
	<b>Total Allocated Costs</b>	<b>\$3,281,972.00</b>
<b>GEN-2011-023 Interconnection Costs</b>		<b>\$5,000,000.00</b>
See Oonline Diagram.		
	GEN-2011-023	\$5,000,000.00
	<b>Total Allocated Costs</b>	<b>\$5,000,000.00</b>
<b>GEN-2011-024 Interconnection Costs</b>		<b>\$5,000,000.00</b>
See Oonline Diagram.		
	GEN-2011-024	\$5,000,000.00
	<b>Total Allocated Costs</b>	<b>\$5,000,000.00</b>
<b>GEN-2011-025 Interconnection Costs</b>		<b>\$4,249,629.00</b>
See Oonline Diagram.		
	GEN-2011-025	\$4,249,629.00
	<b>Total Allocated Costs</b>	<b>\$4,249,629.00</b>
<b>GEN-2011-027 Interconnection Costs</b>		<b>\$6,000,000.00</b>
See Oonline Diagram.		
	GEN-2011-027	\$6,000,000.00
	<b>Total Allocated Costs</b>	<b>\$6,000,000.00</b>
<b>Glass Mountain - Mooreland 138kV</b>		<b>\$17,059,900.00</b>
NRIS upgrade: Rebuild approximatley 24 miles of 138kV line		
	GEN-2011-019	\$8,529,950.00
	GEN-2011-020	\$8,529,950.00
	<b>Total Allocated Costs</b>	<b>\$17,059,900.00</b>
<b>Matthewson - Cimarron 345kV CKT 2</b>		<b>\$29,125,118.00</b>
Build second 345kV circuit from Matthewson - Cimarron		
	GEN-2010-029	\$2,422,216.71
	GEN-2011-007	\$5,014,836.15
	GEN-2011-008	\$3,348,101.25
	GEN-2011-012	\$439,304.76
	GEN-2011-014	\$1,256,944.01
	GEN-2011-016	\$1,076,540.76

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

GEN-2011-017	\$1,511,973.55
GEN-2011-019	\$2,295,525.12
GEN-2011-020	\$2,295,525.12
GEN-2011-021	\$1,709,373.06
GEN-2011-022	\$1,549,319.40
GEN-2011-023	\$1,638,949.45
GEN-2011-024	\$4,566,508.67

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<b>Total Allocated Costs</b>	<b>\$29,125,118.00</b>
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<b>Mullergren - Circle 345kV Dbl CKT</b>	<b>\$132,000,000.00</b>
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Build new 345kV line from Mullergren - Circle

GEN-2010-029	\$37,414,516.27
GEN-2011-008	\$37,816,526.48
GEN-2011-016	\$16,628,673.90
GEN-2011-017	\$18,286,586.99
GEN-2011-023	\$21,853,696.36

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<b>Total Allocated Costs</b>	<b>\$132,000,000.00</b>
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<b>Mullergren 345/230kV Transformer CKT1</b>	<b>\$15,000,000.00</b>
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NRIS upgrade: Build new 345/230kV Transformer

GEN-2010-029	\$4,935,113.06
GEN-2011-016	\$2,193,383.58
GEN-2011-017	\$4,838,856.17
GEN-2011-023	\$3,032,647.19

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<b>Total Allocated Costs</b>	<b>\$15,000,000.00</b>
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<b>Rice County - Circle 230kV Conversion</b>	<b>\$9,889,234.00</b>
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Convert from 115kV to 230kV operation

GEN-2010-057	\$9,889,234.00
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<b>Total Allocated Costs</b>	<b>\$9,889,234.00</b>
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<b>Rice County - Lyons 115kV</b>	<b>\$6,646,800.00</b>
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Rebuild line to 1000 Amps

GEN-2010-057	\$6,646,800.00
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<b>Total Allocated Costs</b>	<b>\$6,646,800.00</b>
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<b>Rice County 230/115kV Substation</b>	<b>\$7,835,455.00</b>
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Install 230/115kV transformer at Rice County substation

GEN-2010-057	\$7,835,455.00
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\* Withdrawal of higher queued projects will cause a restudy and may result in higher costs

<b>Total Allocated Costs</b>		<b>\$7,835,455.00</b>
<b>Roman Nose - Southard 138kV</b>		<b>\$16,000,000.00</b>
NRIS upgrade: Rebuild approximately 17 miles of 138kV line		
	GEN-2011-019	\$8,000,000.00
	GEN-2011-020	\$8,000,000.00
<b>Total Allocated Costs</b>		<b>\$16,000,000.00</b>
<b>Spearville - Mullergreen 345kV Dbl CKT</b>		<b>\$124,000,000.00</b>
Build new 345kV line from Spearville - Mullergreen		
	GEN-2010-029	\$35,146,969.83
	GEN-2011-008	\$35,524,615.79
	GEN-2011-016	\$15,620,875.48
	GEN-2011-017	\$17,178,308.99
	GEN-2011-023	\$20,529,229.91
<b>Total Allocated Costs</b>		<b>\$124,000,000.00</b>
<b>Tatonga - Matthewson 345kV CKT 2</b>		<b>\$105,965,000.00</b>
Build second 345kV circuit from Tatonga - Matthewson		
	GEN-2010-029	\$7,508,127.11
	GEN-2011-008	\$10,332,930.95
	GEN-2011-012	\$2,736,500.23
	GEN-2011-014	\$6,389,519.35
	GEN-2011-016	\$3,336,945.38
	GEN-2011-017	\$4,424,929.85
	GEN-2011-019	\$11,673,716.68
	GEN-2011-020	\$11,673,716.68
	GEN-2011-021	\$9,002,304.42
	GEN-2011-022	\$8,498,994.87
	GEN-2011-023	\$5,068,585.34
	GEN-2011-024	\$25,318,729.13
<b>Total Allocated Costs</b>		<b>\$105,965,000.00</b>
<b>Wheatland - Lyons 115kV</b>		<b>\$76,103.00</b>
Rerate circuit to 1000 amps		
	GEN-2010-057	\$76,103.00
<b>Total Allocated Costs</b>		<b>\$76,103.00</b>

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

**G: Powerflow Analysis (Constraints 20% TDF and above)**

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	3		0 11G	ASGI_2011_002		Non Converged Contingency	0	0.04366	-	DBL-COM-MEDL
FNSL-Blown up	3		0 11G	ASGI_2011_002		Non Converged Contingency	0	0.19042	-	DBL-MEDLO-WI
FNSL-Blown up	3		2 11G	ASGI_2011_002		Non Converged Contingency	0	0.04331	-	DBL-COM-MEDL
FNSL-Blown up	3		2 11G	ASGI_2011_002		Non Converged Contingency	0	0.17706	-	DBL-MEDLO-WI
FNSL-Blown up	3		3 11G	ASGI_2011_002		Non Converged Contingency	0	0.04335	-	DBL-COM-MEDL
FNSL-Blown up	3		3 11G	ASGI_2011_002		Non Converged Contingency	0	0.17698	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL		0 11G	ASGI_2011_002		Non Converged Contingency	1195	0.13880	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	ASGI_2011_002		Non Converged Contingency	1195	0.13880	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	ASGI_2011_002		Non Converged Contingency	1195	0.13880	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	ASGI_2011_002		Non Converged Contingency	0	0.19162	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL		0 11G	ASGI_2011_002		Non Converged Contingency	0	0.16228	-	DBL-WOOD-MED
FNSL-Blown up	02ALL		0 11G	ASGI_2011_002		Non Converged Contingency	0	0.18628	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL		0 11G	ASGI_2011_002		Non Converged Contingency	0	0.23099	-	DBL-G0847-WO
FNSL-Blown up	02ALL		2 11G	ASGI_2011_002		Non Converged Contingency	0	0.32926	-	DBL-HIT-G084
FNSL-Blown up	02ALL		2 11G	ASGI_2011_002		Non Converged Contingency	0	0.23906	-	DBL-G0847-WO
FNSL-Blown up	02ALL		3 11G	ASGI_2011_002		Non Converged Contingency	0	0.32944	-	DBL-HIT-G084
FNSL-Blown up	02ALL		3 11G	ASGI_2011_002		Non Converged Contingency	0	0.23927	-	DBL-G0847-WO
FNSL-Blown up	03ALL		0 11G	ASGI_2011_002		Non Converged Contingency	1195	0.13153	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	ASGI_2011_002		Non Converged Contingency	1195	0.13153	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	ASGI_2011_002		Non Converged Contingency	1195	0.13153	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	ASGI_2011_002		Non Converged Contingency	1792	0.05576	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	ASGI_2011_002		Non Converged Contingency	1328	0.06553	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	ASGI_2011_002		Non Converged Contingency	1195	0.04635	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	ASGI_2011_002		Non Converged Contingency	1195	0.04635	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	ASGI_2011_002		Non Converged Contingency	0	0.16901	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		0 11G	ASGI_2011_002		Non Converged Contingency	0	0.22962	-	DBL-G0847-WO
FNSL-Blown up	03ALL		2 11G	ASGI_2011_002		Non Converged Contingency	1195	0.16583	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	ASGI_2011_002		Non Converged Contingency	1195	0.04421	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	ASGI_2011_002		Non Converged Contingency	0	0.15694	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	ASGI_2011_002		Non Converged Contingency	1792	0.16661	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	ASGI_2011_002		Non Converged Contingency	1195	0.04421	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	ASGI_2011_002		Non Converged Contingency	1195	0.04421	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	ASGI_2011_002		Non Converged Contingency	0	0.15689	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	ASGI_2011_002		Non Converged Contingency	0	0.23807	-	DBL-G0847-WO
FNSL-Blown up	03ALL		4 11G	ASGI_2011_002		Non Converged Contingency	1792	0.16532	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	ASGI_2011_002		Non Converged Contingency	1792	0.16532	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	ASGI_2011_002		Non Converged Contingency	1792	0.05260	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	ASGI_2011_002		Non Converged Contingency	1195	0.04323	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	ASGI_2011_002		Non Converged Contingency	1195	0.04323	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	ASGI_2011_002		Non Converged Contingency	1792	0.07748	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	ASGI_2011_002		Non Converged Contingency	1792	0.07748	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL		4 11G	ASGI_2011_002		Non Converged Contingency	1195	0.04323	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	ASGI_2011_002		Non Converged Contingency	956	0.04677	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	ASGI_2011_002		Non Converged Contingency	0	0.15497	-	DBL-MEDLO-WI
FDNS	2		2 11G	ASGI_2011_002	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21905	121.0025	DBL-MEDLO-WI
FDNS	2		2 11G	ASGI_2011_002	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21905	121.0023	DBL-MEDLO-WI
FDNS	2		2 11G	ASGI_2011_002	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21941	107.3592	DBL-WOOD-MED
FDNS	2		2 11G	ASGI_2011_002	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21941	107.3592	DBL-WOOD-MED
FDNS	2		2 11G	ASGI_2011_002	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20624	105.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		2 11G	ASGI_2011_002	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20624	105.0432	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 11G	ASGI_2011_002	TO->FROM	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.27597	115.1098	DBL-HIT-G084
FDNS	02ALL		0 11G	ASGI_2011_002	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.20447	101.1175	DBL-WOOD-MED
FDNS	02ALL		2 11G	ASGI_2011_002	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21662	144.3307	DBL-MEDLO-WI
FDNS	02ALL		2 11G	ASGI_2011_002	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21662	144.3306	DBL-MEDLO-WI
FDNS	02ALL		2 11G	ASGI_2011_002	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21686	128.378	DBL-WOOD-MED
FDNS	02ALL		2 11G	ASGI_2011_002	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21686	128.378	DBL-WOOD-MED

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	ASGI_2011_002	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20356	117.5903	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL	2	11G	ASGI_2011_002	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20356	117.5627	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL	2	11G	ASGI_2011_002	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20356	116.5021	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	2	11G	ASGI_2011_002	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20356	116.4728	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	2	11G	ASGI_2011_002	TO->FROM	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.27562	115.1342	DBL-HIT-G084
FDNS	02ALL	3	11G	ASGI_2011_002	TO->FROM	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.27566	115.2728	DBL-HIT-G084
FNSL-Blown up	3	0	11G	ASGI_2011_003		Non Converged Contingency	0	0.16162	-	DBL-MEDLO-WI
FNSL-Blown up	3	2	11G	ASGI_2011_003		Non Converged Contingency	0	0.15130	-	DBL-MEDLO-WI
FNSL-Blown up	3	3	11G	ASGI_2011_003		Non Converged Contingency	0	0.15129	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	ASGI_2011_003		Non Converged Contingency	1195	0.11015	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	ASGI_2011_003		Non Converged Contingency	1195	0.11015	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	ASGI_2011_003		Non Converged Contingency	1195	0.11015	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	ASGI_2011_003		Non Converged Contingency	0	0.16304	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	ASGI_2011_003		Non Converged Contingency	0	0.15754	-	DBL-WOOD-MED
FNSL-Blown up	02ALL	0	11G	ASGI_2011_003		Non Converged Contingency	0	0.15771	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	ASGI_2011_003		Non Converged Contingency	0	0.10824	-	DBL-G0847-WO
FNSL-Blown up	02ALL	2	11G	ASGI_2011_003		Non Converged Contingency	0	0.19036	-	DBL-HIT-G084
FNSL-Blown up	02ALL	2	11G	ASGI_2011_003		Non Converged Contingency	0	0.11449	-	DBL-G0847-WO
FNSL-Blown up	02ALL	3	11G	ASGI_2011_003		Non Converged Contingency	0	0.19038	-	DBL-HIT-G084
FNSL-Blown up	02ALL	3	11G	ASGI_2011_003		Non Converged Contingency	0	0.11450	-	DBL-G0847-WO
FNSL-Blown up	03ALL	0	11G	ASGI_2011_003		Non Converged Contingency	1195	0.10284	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	ASGI_2011_003		Non Converged Contingency	1195	0.10284	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	ASGI_2011_003		Non Converged Contingency	1195	0.10284	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	ASGI_2011_003		Non Converged Contingency	1195	0.10284	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	ASGI_2011_003		Non Converged Contingency	1792	0.04818	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	ASGI_2011_003		Non Converged Contingency	1328	0.05210	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	ASGI_2011_003		Non Converged Contingency	1195	0.03601	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	ASGI_2011_003		Non Converged Contingency	1195	0.03601	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	ASGI_2011_003		Non Converged Contingency	0	0.14419	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	0	11G	ASGI_2011_003		Non Converged Contingency	0	0.10639	-	DBL-G0847-WO
FNSL-Blown up	03ALL	2	11G	ASGI_2011_003		Non Converged Contingency	1195	0.12928	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	ASGI_2011_003		Non Converged Contingency	1195	0.03437	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	ASGI_2011_003		Non Converged Contingency	0	0.13491	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	ASGI_2011_003		Non Converged Contingency	1792	0.12933	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	ASGI_2011_003		Non Converged Contingency	1195	0.03438	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	ASGI_2011_003		Non Converged Contingency	1195	0.03438	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	ASGI_2011_003		Non Converged Contingency	0	0.13493	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	ASGI_2011_003		Non Converged Contingency	0	0.11275	-	DBL-G0847-WO
FNSL-Blown up	03ALL	4	11G	ASGI_2011_003		Non Converged Contingency	1792	0.12870	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	ASGI_2011_003		Non Converged Contingency	1792	0.12870	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	ASGI_2011_003		Non Converged Contingency	1792	0.04560	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	ASGI_2011_003		Non Converged Contingency	1195	0.03355	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	ASGI_2011_003		Non Converged Contingency	1195	0.03355	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	ASGI_2011_003		Non Converged Contingency	1792	0.06669	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	ASGI_2011_003		Non Converged Contingency	1792	0.06669	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL	4	11G	ASGI_2011_003		Non Converged Contingency	1195	0.03355	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	ASGI_2011_003		Non Converged Contingency	956	0.03764	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	ASGI_2011_003		Non Converged Contingency	0	0.13337	-	DBL-MEDLO-WI
FDNS	2	2	11G	ASGI_2011_003	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22238	105.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2	2	11G	ASGI_2011_003	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22238	105.0432	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL	2	11G	ASGI_2011_003	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21983	117.5903	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL	2	11G	ASGI_2011_003	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21983	117.5627	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL	2	11G	ASGI_2011_003	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21983	116.5021	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	2	11G	ASGI_2011_003	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21983	116.4728	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FNSL-Blown up	3	0	11G	G10_020		Non Converged Contingency	0	0.16760	-	DBL-MEDLO-WI
FNSL-Blown up	3	2	11G	G10_020		Non Converged Contingency	0	0.15665	-	DBL-MEDLO-WI
FNSL-Blown up	3	3	11G	G10_020		Non Converged Contingency	0	0.15663	-	DBL-MEDLO-WI

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	01ALL	0	11G	G10_020		Non Converged Contingency	1195	0.11604	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G10_020		Non Converged Contingency	1195	0.11604	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G10_020		Non Converged Contingency	1195	0.11604	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G10_020		Non Converged Contingency	0	0.16896	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G10_020		Non Converged Contingency	0	0.15838	-	DBL-WOOD-MED
FNSL-Blown up	02ALL	0	11G	G10_020		Non Converged Contingency	0	0.16362	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	G10_020		Non Converged Contingency	0	0.13443	-	DBL-G0847-WO
FNSL-Blown up	02ALL	2	11G	G10_020		Non Converged Contingency	0	0.21993	-	DBL-HIT-G084
FNSL-Blown up	02ALL	2	11G	G10_020		Non Converged Contingency	0	0.14105	-	DBL-G0847-WO
FNSL-Blown up	02ALL	3	11G	G10_020		Non Converged Contingency	0	0.21998	-	DBL-HIT-G084
FNSL-Blown up	02ALL	3	11G	G10_020		Non Converged Contingency	0	0.14111	-	DBL-G0847-WO
FNSL-Blown up	03ALL	0	11G	G10_020		Non Converged Contingency	1195	0.10872	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_020		Non Converged Contingency	1195	0.10872	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_020		Non Converged Contingency	1195	0.10872	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_020		Non Converged Contingency	1792	0.04976	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_020		Non Converged Contingency	1328	0.05492	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_020		Non Converged Contingency	1195	0.03818	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_020		Non Converged Contingency	1195	0.03818	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_020		Non Converged Contingency	0	0.14930	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	0	11G	G10_020		Non Converged Contingency	0	0.13257	-	DBL-G0847-WO
FNSL-Blown up	03ALL	2	11G	G10_020		Non Converged Contingency	1195	0.13677	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G10_020		Non Converged Contingency	1195	0.03643	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G10_020		Non Converged Contingency	0	0.13945	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G10_020		Non Converged Contingency	1792	0.13698	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G10_020		Non Converged Contingency	1195	0.03644	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G10_020		Non Converged Contingency	1195	0.03644	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G10_020		Non Converged Contingency	0	0.13945	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G10_020		Non Converged Contingency	0	0.13936	-	DBL-G0847-WO
FNSL-Blown up	03ALL	4	11G	G10_020		Non Converged Contingency	1792	0.13625	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_020		Non Converged Contingency	1792	0.13625	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_020		Non Converged Contingency	1792	0.04707	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_020		Non Converged Contingency	1195	0.03559	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_020		Non Converged Contingency	1195	0.03559	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_020		Non Converged Contingency	1792	0.06892	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_020		Non Converged Contingency	1792	0.06892	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL	4	11G	G10_020		Non Converged Contingency	1195	0.03559	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_020		Non Converged Contingency	956	0.03957	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_020		Non Converged Contingency	0	0.13785	-	DBL-MEDLO-WI
FDNS	2	2	11G	G10_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21793	105.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2	2	11G	G10_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21793	105.0432	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL	2	11G	G10_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21534	117.5903	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL	2	11G	G10_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21534	117.5627	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL	2	11G	G10_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21534	116.5021	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	2	11G	G10_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21534	116.4728	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	3	11G	G10_020	TO->FROM	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.19904	115.2728	DBL-HIT-G084
FNSL-Blown up	3	0	11G	G10_029		Non Converged Contingency	0	0.39239	-	DBL-COM-MEDL
FNSL-Blown up	3	0	11G	G10_029		Non Converged Contingency	0	0.27432	-	DBL-MEDLO-WI
FNSL-Blown up	3	2	11G	G10_029		Non Converged Contingency	0	0.39217	-	DBL-COM-MEDL
FNSL-Blown up	3	2	11G	G10_029		Non Converged Contingency	0	0.26382	-	DBL-MEDLO-WI
FNSL-Blown up	3	3	11G	G10_029		Non Converged Contingency	0	0.39227	-	DBL-COM-MEDL
FNSL-Blown up	3	3	11G	G10_029		Non Converged Contingency	0	0.26366	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G10_029		Non Converged Contingency	1195	0.11824	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G10_029		Non Converged Contingency	1195	0.11824	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G10_029		Non Converged Contingency	1195	0.11824	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G10_029		Non Converged Contingency	0	0.27584	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	G10_029		Non Converged Contingency	0	0.27051	-	DBL-MEDLO-WI

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FNSL-Blown up	02ALL		0 11G	G10_029		Non Converged Contingency		0	0.09302	-	DBL-G0847-WO
FNSL-Blown up	02ALL		2 11G	G10_029		Non Converged Contingency		0	0.09944	-	DBL-G0847-WO
FNSL-Blown up	02ALL		3 11G	G10_029		Non Converged Contingency		0	0.09989	-	DBL-G0847-WO
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		1195	0.10307	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		1195	0.10307	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		1195	0.10307	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		1052	0.08092	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		1792	0.15206	-	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		1328	0.04356	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		1195	0.13994	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		1195	0.13994	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		1792	0.13947	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		0	0.33096	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		0	0.33096	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		0	0.21171	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		0	0.07744	-	DBL-G0847-WO
FNSL-Blown up	03ALL		0 11G	G10_029		Non Converged Contingency		0	0.11749	-	DBL-WOOD-MED
FNSL-Blown up	03ALL		2 11G	G10_029		Non Converged Contingency		1195	0.12779	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G10_029		Non Converged Contingency		1052	0.08248	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G10_029		Non Converged Contingency		1195	0.13841	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G10_029		Non Converged Contingency		1792	0.16573	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G10_029		Non Converged Contingency		1792	0.16573	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 2
FNSL-Blown up	03ALL		2 11G	G10_029		Non Converged Contingency		0	0.33146	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		2 11G	G10_029		Non Converged Contingency		0	0.33146	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		2 11G	G10_029		Non Converged Contingency		0	0.20311	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	G10_029		Non Converged Contingency		1792	0.12935	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G10_029		Non Converged Contingency		1195	0.13840	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G10_029		Non Converged Contingency		1195	0.13840	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G10_029		Non Converged Contingency		0	0.33158	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		3 11G	G10_029		Non Converged Contingency		0	0.33158	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		3 11G	G10_029		Non Converged Contingency		0	0.20299	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	G10_029		Non Converged Contingency		0	0.08384	-	DBL-G0847-WO
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		1792	0.12920	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		1792	0.12920	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		1052	0.08212	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		1052	0.08212	-	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		398	0.04385	-	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		1792	0.14955	-	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		1195	0.13768	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		1195	0.13768	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		1792	0.10086	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		1792	0.10086	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		319	0.03931	-	CIRCLE - MULLERGREN 230KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		1792	0.14210	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		1195	0.13768	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		956	0.03646	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		1792	0.16518	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		1792	0.16518	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 2
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		0	0.33035	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		0	0.20171	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		4 11G	G10_029		Non Converged Contingency		0	0.12741	-	DBL-WOOD-MED
FNSL-Blown up	03G10_029		0 11G	G10_029		Non Converged Contingency		0	0.39178	-	DBL-COM-MEDL
FNSL-Blown up	03G10_029		0 11G	G10_029		Non Converged Contingency		0	0.27343	-	DBL-MEDLO-WI
FNSL-Blown up	03G10_029		2 11G	G10_029		Non Converged Contingency		0	0.39157	-	DBL-COM-MEDL
FNSL-Blown up	03G10_029		2 11G	G10_029		Non Converged Contingency		0	0.26297	-	DBL-MEDLO-WI
FNSL-Blown up	03G10_029		3 11G	G10_029		Non Converged Contingency		0	0.39168	-	DBL-COM-MEDL



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	03G10_029	3	11G	G10_029		Non Converged Contingency	0	0.26283	-	DBL-MEDLO-WI
FNSL-Blown up	03G10_029	4	11G	G10_029		Non Converged Contingency	0	0.33287	-	DBL-COM-MEDL
FDNS	2	2	11G	G10_029	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21567	121.0025	DBL-MEDLO-WI
FDNS	2	2	11G	G10_029	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21567	121.0023	DBL-MEDLO-WI
FDNS	02ALL	2	11G	G10_029	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21377	144.3307	DBL-MEDLO-WI
FDNS	02ALL	2	11G	G10_029	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21377	144.3306	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G10_055		Non Converged Contingency	0	0.04827	-	DBL-G0847-WO
FNSL-Blown up	03ALL	0	11G	G10_056		Non Converged Contingency	1052	0.04351	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_056		Non Converged Contingency	1792	0.04311	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_056		Non Converged Contingency	0	0.07700	-	DBL-WOOD-MED
FNSL-Blown up	03ALL	2	11G	G10_056		Non Converged Contingency	1052	0.04373	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_056		Non Converged Contingency	1052	0.04340	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_056		Non Converged Contingency	1052	0.04340	-	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_056		Non Converged Contingency	1792	0.04307	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_056		Non Converged Contingency	0	0.07808	-	DBL-WOOD-MED
FNSL-Blown up	3	5	11G	G10_057		Non Converged Contingency	0	0.37540	-	MIDW-CATB06
FNSL-Blown up	3	5	11G	G10_057		Non Converged Contingency	0	0.56311	-	SPP-WERE-76
FNSL-Blown up	00G10_057	3	16WP	G10_057		Non Converged Contingency	280	0.79406	-	CIRCLE - RICECO 230.00 230KV CKT 1
FNSL-Blown up	01ALL	0	11G	G10_057		Non Converged Contingency	1195	0.05680	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G10_057		Non Converged Contingency	1195	0.05680	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G10_057		Non Converged Contingency	1195	0.05680	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_057		Non Converged Contingency	1195	0.05671	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_057		Non Converged Contingency	1195	0.05671	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_057		Non Converged Contingency	1195	0.05671	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_057		Non Converged Contingency	1052	0.04817	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_057		Non Converged Contingency	1792	0.06399	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_057		Non Converged Contingency	0	0.05849	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	0	11G	G10_057		Non Converged Contingency	0	0.05849	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	0	11G	G10_057		Non Converged Contingency	0	0.12465	-	DBL-WOOD-MED
FNSL-Blown up	03ALL	2	11G	G10_057		Non Converged Contingency	1195	0.06769	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G10_057		Non Converged Contingency	1052	0.04888	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G10_057		Non Converged Contingency	0	0.05881	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	2	11G	G10_057		Non Converged Contingency	0	0.05881	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	3	11G	G10_057		Non Converged Contingency	1792	0.06910	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G10_057		Non Converged Contingency	0	0.05892	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	3	11G	G10_057		Non Converged Contingency	0	0.05892	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	4	11G	G10_057		Non Converged Contingency	1792	0.06893	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_057		Non Converged Contingency	1792	0.06893	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_057		Non Converged Contingency	1052	0.04854	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_057		Non Converged Contingency	1052	0.04854	-	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_057		Non Converged Contingency	1792	0.06494	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G10_057		Non Converged Contingency	0	0.05768	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	4	11G	G10_057		Non Converged Contingency	0	0.12898	-	DBL-WOOD-MED
FNSL	00G10_057	2	16WP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	153.564	CIRCLE - RICECO 230.00 230KV CKT 1
FNSL	00G10_057	2	16WP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	159	1.00000	110.4849	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	11	0	11G	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	1.00000	235.577	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	11	0	11G	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	117.352	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	11	2	11G	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	118.9735	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	11	3	11G	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	159	1.00000	96	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	0	12WP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	1.00000	318.1769	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	0	16WP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	1.00000	317.0451	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	0	12SP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	1.00000	292.2779	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	0	16SP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	1.00000	290.2522	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	0	12WP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	152.1366	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	0	16WP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	151.8016	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	0	12SP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	147.9019	CIRCLE - RICECO 230.00 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	00G10_057	0	16SP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	147.415	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	2	12SP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	149.5091	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	2	12SP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	159	1.00000	101.5895	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	2	16SP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	148.9191	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	2	16SP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	159	1.00000	100.8411	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	3	12SP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	159	1.00000	120.7048	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	3	12SP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	159	1.00000	101.8263	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	3	16SP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	159	1.00000	120.2222	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00G10_057	3	16SP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	159	1.00000	101.061	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	03ALL	5	11G	G10_057	TO->FROM	BENTON - WICHITA 345KV CKT 1	956	0.19027	103.8017	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	03ALL	5	11G	G10_057	TO->FROM	BENTON - WICHITA 345KV CKT 1	956	0.19027	101.6363	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	03ALL	3	11G	G10_057	TO->FROM	BENTON - WICHITA 345KV CKT 1	956	0.19391	100.2819	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	03ALL	4	11G	G10_057	TO->FROM	BENTON - WICHITA 345KV CKT 1	956	0.19328	100.9294	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	11G10_057	0	11G	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	1.00000	314.3859	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	11G10_057	0	11G	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	151.7188	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	11G10_057	0	11G	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	0.22259	103.8406	CIRCLE (CIRCLE1X) 230/115/13.8KV TRANSFORMER CKT 1
FDNS	00NR	0	12SP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	0.22488	117.4952	CIRCLE - EAST MCPHERSON 230KV CKT 1
FDNS	00NR	0	12SP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	148.5159	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00NR	0	12SP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	1.00000	292.7701	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00NR	0	12WP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	0.22747	114.7012	CIRCLE - EAST MCPHERSON 230KV CKT 1
FDNS	00NR	0	12WP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	153.0462	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00NR	0	12WP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	1.00000	318.8479	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00NR	0	12WP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	0.22463	107.0732	CIRCLE (CIRCLE1X) 230/115/13.8KV TRANSFORMER CKT 1
FDNS	00NR	0	16SP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	0.22412	118.0167	CIRCLE - EAST MCPHERSON 230KV CKT 1
FDNS	00NR	0	16SP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	147.9813	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00NR	0	16SP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	1.00000	290.7352	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00NR	0	16WP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	0.22689	115.9764	CIRCLE - EAST MCPHERSON 230KV CKT 1
FDNS	00NR	0	16WP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	152.6462	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00NR	0	16WP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	1.00000	318.0847	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00NR	0	16WP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	0.22466	107.1081	CIRCLE (CIRCLE1X) 230/115/13.8KV TRANSFORMER CKT 1
FDNS	11NR	0	11G	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	128	1.00000	151.6831	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	11NR	0	11G	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	1.00000	314.2697	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	11NR	0	11G	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	55	0.22454	104.3574	CIRCLE (CIRCLE1X) 230/115/13.8KV TRANSFORMER CKT 1
FDNS	00NR	3	16SP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	159	1.00000	124.7463	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00NR	3	16SP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	159	1.00000	105.385	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00NR	3	16SP	G10_057	TO->FROM	LYONS - RICE_CO 115KV CKT 1	159	1.00000	124.7463	CIRCLE - RICECO 230.00 230KV CKT 1
FDNS	00NR	3	16SP	G10_057	FROM->TO	LYONS - WHEATLAND 115KV CKT 1	159	1.00000	105.385	CIRCLE - RICECO 230.00 230KV CKT 1
FNSL-Blown up	3	0	11G	G10_058		Non Converged Contingency	0	0.16765	-	DBL-MEDLO-WI
FNSL-Blown up	3	2	11G	G10_058		Non Converged Contingency	0	0.15670	-	DBL-MEDLO-WI
FNSL-Blown up	3	3	11G	G10_058		Non Converged Contingency	0	0.15668	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G10_058		Non Converged Contingency	1195	0.11609	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G10_058		Non Converged Contingency	1195	0.11609	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G10_058		Non Converged Contingency	1195	0.11609	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G10_058		Non Converged Contingency	0	0.16901	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G10_058		Non Converged Contingency	0	0.15839	-	DBL-WOOD-MED
FNSL-Blown up	02ALL	0	11G	G10_058		Non Converged Contingency	0	0.16368	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	G10_058		Non Converged Contingency	0	0.13465	-	DBL-G0847-WO
FNSL-Blown up	02ALL	2	11G	G10_058		Non Converged Contingency	0	0.22019	-	DBL-HIT-G084
FNSL-Blown up	02ALL	2	11G	G10_058		Non Converged Contingency	0	0.14128	-	DBL-G0847-WO
FNSL-Blown up	02ALL	3	11G	G10_058		Non Converged Contingency	0	0.22024	-	DBL-HIT-G084
FNSL-Blown up	02ALL	3	11G	G10_058		Non Converged Contingency	0	0.14134	-	DBL-G0847-WO
FNSL-Blown up	03ALL	0	11G	G10_058		Non Converged Contingency	1195	0.10877	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_058		Non Converged Contingency	1195	0.10877	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_058		Non Converged Contingency	1195	0.10877	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_058		Non Converged Contingency	1792	0.04978	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G10_058		Non Converged Contingency	1328	0.05494	-	MINGO - SETAB 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	03ALL		0 11G	G10_058		Non Converged Contingency	1195	0.03820	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G10_058		Non Converged Contingency	1195	0.03820	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G10_058		Non Converged Contingency	0	0.14934	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		0 11G	G10_058		Non Converged Contingency	0	0.13280	-	DBL-G0847-WO
FNSL-Blown up	03ALL		2 11G	G10_058		Non Converged Contingency	1195	0.13684	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G10_058		Non Converged Contingency	1195	0.03645	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G10_058		Non Converged Contingency	0	0.13949	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	G10_058		Non Converged Contingency	1792	0.13704	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G10_058		Non Converged Contingency	1195	0.03646	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G10_058		Non Converged Contingency	1195	0.03646	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G10_058		Non Converged Contingency	0	0.13949	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	G10_058		Non Converged Contingency	0	0.13959	-	DBL-G0847-WO
FNSL-Blown up	03ALL		4 11G	G10_058		Non Converged Contingency	1792	0.13631	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_058		Non Converged Contingency	1792	0.13631	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_058		Non Converged Contingency	1792	0.04708	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_058		Non Converged Contingency	1195	0.03561	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_058		Non Converged Contingency	1195	0.03561	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_058		Non Converged Contingency	1792	0.06894	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_058		Non Converged Contingency	1792	0.06894	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL		4 11G	G10_058		Non Converged Contingency	1195	0.03561	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_058		Non Converged Contingency	956	0.03958	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G10_058		Non Converged Contingency	0	0.13789	-	DBL-MEDLO-WI
FDNS	2		2 11G	G10_058	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21789	105.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		2 11G	G10_058	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21789	105.0432	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		2 11G	G10_058	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21530	117.5903	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2 11G	G10_058	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21530	117.5627	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2 11G	G10_058	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21530	116.5021	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G10_058	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21530	116.4728	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		3 11G	G10_058	TO->FROM	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.19922	115.2728	DBL-HIT-G084
FNSL-Blown up	01ALL		0 11G	G11_007		Non Converged Contingency	0	0.06121	-	DBL-G0847-WO
FNSL	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	106.1292	GEN336153 1-WATERFORD UNIT#3
FNSL	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	106.1281	GEN336153 1-WATERFORD UNIT#3
FNSL	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	104.1888	GEN337652 1-WHITE BLUFF UNIT #1
FNSL	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	104.1877	GEN337652 1-WHITE BLUFF UNIT #1
FNSL	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.1704	GEN338189 1-LS POWER OSCEOLA UNIT G1
FNSL	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.1695	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	1		2 11G	G11_007	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.53273	148.6063	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	1		2 11G	G11_007	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.53274	148.6019	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	1		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.58993	131.1941	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	1		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.58994	131.1907	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	2		2 11G	G11_007	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.52873	118.4226	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	2		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.58519	104.974	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	3		2 11G	G11_007	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.52878	127.0523	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	3		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.58549	111.2313	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38113	100.4725	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38113	100.4719	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38014	101.4572	LACYGNE - NEOSHO 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38014	101.4565	LACYGNE - NEOSHO 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38184	100.8809	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38184	100.8805	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38175	101.2534	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38176	101.253	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.53551	175.8627	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.53552	175.8591	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.59277	156.053	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.59278	156.0502	CIMARRON - MATTHEWSON 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38848	115.4615	DBL-WOOD-MED
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38848	115.452	DBL-WOOD-MED
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38302	115.4073	DBL-MEDLO-WI
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38302	115.4001	DBL-MEDLO-WI
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.48555	110.8587	MATTHEWSON 345.00 - WOODRING 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.48556	110.8583	MATTHEWSON 345.00 - WOODRING 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	106.5445	GEN336821 1-GRAND GULF UNIT
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	106.5433	GEN336821 1-GRAND GULF UNIT
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.41375	106.3216	SOONER - WOODRING 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.41375	106.3212	SOONER - WOODRING 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37417	106.1164	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37417	106.1161	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	105.9009	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	105.8998	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	105.3175	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	105.3164	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.39577	105.1496	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.39577	105.1491	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	104.9642	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	104.9632	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37986	104.9018	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37986	104.8998	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38349	104.3001	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38349	104.3001	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38349	104.3	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38349	104.3	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	104.08	GEN501801 1-DOLET HILLS UNIT1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	104.079	GEN501801 1-DOLET HILLS UNIT1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.9214	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.9202	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.9184	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.9174	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.8449	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.8438	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.6852	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.6843	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38179	103.4771	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38179	103.4771	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38179	103.4769	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38179	103.4769	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.4043	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.4033	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.3099	GEN501813 1-RODEMACHER UNIT 3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.309	GEN509403 1-PIRKEY GENERATION
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.309	GEN501813 1-RODEMACHER UNIT 3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.3081	GEN509403 1-PIRKEY GENERATION
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.2653	GEN337041 1-GERALD ANDRUS
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.2643	GEN337041 1-GERALD ANDRUS
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.2307	GEN515223 1-MUSKOGEE 4G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.2298	GEN515223 1-MUSKOGEE 4G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.1833	GEN515225 1-MUSKOGEE 5G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	103.1825	GEN515225 1-MUSKOGEE 5G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38417	103.1057	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38417	103.1054	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38565	102.9498	CLEVELAND - SOONER 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38565	102.9469	CLEVELAND - SOONER 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.9259	GEN336831 1-BAXTER WILSON SES
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.925	GEN336831 1-BAXTER WILSON SES
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.9166	GEN520947 1-HUGO1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.9157	GEN520947 1-HUGO1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.9035	GEN501812 1-RODEMACHER UNIT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.9026	GEN501812 1-RODEMACHER UNIT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.891	GEN515040 1-SEMINOLE 1G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.8898	GEN515040 1-SEMINOLE 1G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.8604	GEN335206 1-NELSON UNIT 6
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.8595	GEN335206 1-NELSON UNIT 6
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.7707	GEN514910 2-REDBUD GEN
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.7707	GEN514911 2-REDBUD GEN
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.7699	GEN514910 2-REDBUD GEN
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.7699	GEN514911 2-REDBUD GEN
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.6965	GEN334440 1-SABINE UNIT 4
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.6956	GEN334440 1-SABINE UNIT 4
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.6891	GEN509406 1-WELSH #3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.689	GEN509405 1-WELSH #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.6889	GEN509404 1-WELSH #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.6882	GEN509406 1-WELSH #3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.6881	GEN509405 1-WELSH #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.688	GEN509404 1-WELSH #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38235	102.5984	BENTON - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38235	102.5979	BENTON - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.5812	GEN335204 1-NELSON UNIT 4
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.5803	GEN335204 1-NELSON UNIT 4
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38245	102.5079	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38245	102.5076	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37986	102.4633	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37986	102.4621	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.4485	GEN509394 1-FLINT CREEK
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.4476	GEN509394 1-FLINT CREEK
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.4403	GEN514900 1-REDBUD2S
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.4402	GEN514899 1-REDBUD1S
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.4395	GEN514900 1-REDBUD2S
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.4394	GEN514899 1-REDBUD1S
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37417	102.392	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37417	102.3914	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.3441	GEN334441 1-SABINE UNIT 5
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.3432	GEN334441 1-SABINE UNIT 5
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.3419	GEN514806 1-SOONER UNIT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.3409	GEN514806 1-SOONER UNIT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.2966	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.2957	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.2559	GEN511841 1-NORTHEASTERN STATION #4
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.255	GEN511841 1-NORTHEASTERN STATION #4
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.2328	GEN511840 1-NORTHEASTERN STATION #3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.232	GEN511840 1-NORTHEASTERN STATION #3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37986	102.2191	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37986	102.2178	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.2038	GEN515042 1-SEMINOLE 3G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.2029	GEN515042 1-SEMINOLE 3G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.1918	GEN511839 1-NORTHEASTERN STATION #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.1909	GEN511839 1-NORTHEASTERN STATION #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38245	102.1894	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38245	102.1891	G10-16T 345.00 - SPEARVILLE 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38262	102.1641	MINGO - RED WILLOW 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38262	102.1639	MINGO - RED WILLOW 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38179	102.1563	CIMARRON - HAYMAKER 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38179	102.1556	CIMARRON - HAYMAKER 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38237	102.1202	MINGO - SETAB 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38237	102.1199	MINGO - SETAB 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.0857	GEN512689 1-GRDA1 GSU1 22
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.0849	GEN512689 1-GRDA1 GSU1 22
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38331	102.062	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38331	102.0618	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38254	102.0497	CIMARRON - CZECH HALL 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38254	102.0492	CIMARRON - CZECH HALL 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.0328	GEN512688 2-GRDA1 GSU2 22
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38179	102.0321	DIVISION AVE - HAYMAKER 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	102.0319	GEN512688 2-GRDA1 GSU2 22
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38179	102.0315	DIVISION AVE - HAYMAKER 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38166	101.9777	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38165	101.9771	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.9724	GEN514805 1-SOONER UNIT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38166	101.9713	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.9711	GEN514805 1-SOONER UNIT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38165	101.9688	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.9457	GEN515041 1-SEMINOLE 2G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.9449	GEN515041 1-SEMINOLE 2G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38254	101.9365	CZECH HALL - XEROX 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38254	101.9359	CZECH HALL - XEROX 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38254	101.9263	MORGAN - XEROX 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38254	101.9256	MORGAN - XEROX 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38090	101.9147	MARSHALL - WOODRING 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38090	101.9141	MARSHALL - WOODRING 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38302	101.8888	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38302	101.8882	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38151	101.8871	OGE3TERM2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38151	101.8866	OGE3TERM2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38090	101.8857	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38090	101.8851	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38141	101.8759	MORRISON - STILLWATER 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38141	101.8753	MORRISON - STILLWATER 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37417	101.8673	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38254	101.8668	MORGAN - MUSTANG 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37417	101.8666	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38254	101.8661	MORGAN - MUSTANG 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38271	101.8512	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38271	101.8508	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38768	101.83	DBL-G0847-WO
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38768	101.8291	DBL-G0847-WO
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38262	101.8187	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38262	101.8182	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.39211	101.8074	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.39211	101.807	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38262	101.7019	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38262	101.7014	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38302	101.6833	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38302	101.6828	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.6477	GEN509409 1-WILKES #3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.6469	GEN509409 1-WILKES #3

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.6417	GEN336170 1-GULF OXY U4
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.6409	GEN336170 1-GULF OXY U4
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.6319	GEN514998 1-MCCLAIN UNIT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.6319	GEN514999 1-MCCLAIN UNIT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.6311	GEN514998 1-MCCLAIN UNIT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.6311	GEN514999 1-MCCLAIN UNIT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.6195	GEN514905 1-REDBUD3S
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.6188	GEN514905 1-REDBUD3S
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38400	101.6123	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38400	101.6121	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38402	101.5795	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38402	101.5788	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38152	101.5709	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38152	101.5708	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.4765	GEN511843 1-RIVERSIDE STATION #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.4757	GEN511843 1-RIVERSIDE STATION #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.4551	GEN514912 2-REDBUD GEN
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.4544	GEN514912 2-REDBUD GEN
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.4488	GEN300006 1-NEW MADRID UNIT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.448	GEN300006 1-NEW MADRID UNIT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37962	101.444	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37962	101.4439	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37962	101.4437	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37962	101.4436	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.4418	GEN300007 1-NEW MADRID UNIT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.441	GEN300007 1-NEW MADRID UNIT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38123	101.4334	MCELROY - STILLWATER 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38123	101.4329	MCELROY - STILLWATER 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.4147	GEN334070 1-LEWIS CREEK 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38401	101.4144	CIMARRON (CIMARON1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.4139	GEN334070 1-LEWIS CREEK 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38401	101.4138	CIMARRON (CIMARON1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38393	101.3747	CIMARRON (CIMARON2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38393	101.3742	CIMARRON (CIMARON2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38214	101.3526	HOLCOMB - SETAB 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38214	101.3522	HOLCOMB - SETAB 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38263	101.3399	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38263	101.3397	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38018	101.3239	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38018	101.3235	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38177	101.3088	WRTOD400
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38177	101.3083	WRTOD400
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38123	101.2861	KINZE - MCELROY 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38123	101.2854	KINZE - MCELROY 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38112	101.2799	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38112	101.2798	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38112	101.2738	IMO TAP - MEN TAP 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38112	101.2737	IMO TAP - MEN TAP 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38302	101.2374	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38302	101.2369	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38116	101.2337	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38116	101.2334	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38116	101.2154	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38116	101.2152	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38110	101.1329	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38110	101.1328	CEDARDALE - MOORELAND 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38110	101.1315	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38110	101.1314	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38152	101.1144	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38152	101.1143	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38319	101.0995	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38319	101.0991	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38167	101.0455	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38167	101.0451	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.0237	GEN334030 1-FRONTIER UNIT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.0229	GEN334030 1-FRONTIER UNIT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.0182	GEN515266 1-AES 1G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.0182	GEN515267 1-AES 2G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.0174	GEN515266 1-AES 1G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.0174	GEN515267 1-AES 2G
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.0108	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.0108	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.01	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.01	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.0019	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	101.0011	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.993	GEN505432 1-SIKESTON
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9922	GEN505432 1-SIKESTON
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9905	GEN501823 1-TECHE UNIT 3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9895	GEN501823 1-TECHE UNIT 3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9857	GEN318007 1-5MOROW161 161.00
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9849	GEN318007 1-5MOROW161 161.00
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9666	GEN337428 1-PERYVILLE UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9666	GEN337430 1-PERYVILLE UNIT #3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9659	GEN337428 1-PERYVILLE UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9659	GEN337430 1-PERYVILLE UNIT #3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37956	100.9522	SPP-SWPS-03
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37956	100.9516	SPP-SWPS-03
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9441	GEN337429 1-PERYVILLE UNIT #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9441	GEN337432 1-PERYVILLE UNIT #5
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9433	GEN337429 1-PERYVILLE UNIT #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9433	GEN337432 1-PERYVILLE UNIT #5
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9343	GEN334031 1-FRONTIER UNIT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9336	GEN334031 1-FRONTIER UNIT 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38152	100.9311	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38152	100.931	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38098	100.9304	BENTON - ROSE HILL 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38099	100.9298	BENTON - ROSE HILL 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9208	GEN335203 1-NELSON UNIT 3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.92	GEN335203 1-NELSON UNIT 3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9185	GEN337125 6-LS POWER BATESVILLE
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9177	GEN515000 1-MCCLAIN UNIT 3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9177	GEN337125 6-LS POWER BATESVILLE
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9169	GEN515000 1-MCCLAIN UNIT 3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9093	GEN337006 1-DUKE MCADAMS G1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9093	GEN337007 1-DUKE MCADAMS G2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9085	GEN337006 1-DUKE MCADAMS G1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.9085	GEN337007 1-DUKE MCADAMS G2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38100	100.9033	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38100	100.9028	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8931	GEN335076 1-DYNEGY UNIT2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8926	GEN337008 1-DUKE MCADAMS S1



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8923	GEN335076 1-DYNEGY UNIT2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8919	GEN337008 1-DUKE MCADAMS S1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38131	100.8888	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38131	100.8884	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8881	GEN501911 1-ACADIA UNIT CT1A
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8874	GEN501911 1-ACADIA UNIT CT1A
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8857	GEN336167 1-GULF OXY U1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8857	GEN336168 1-GULF OXY U2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8857	GEN336169 1-GULF OXY U3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8849	GEN336167 1-GULF OXY U1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8849	GEN336168 1-GULF OXY U2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8849	GEN336169 1-GULF OXY U3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8755	GEN334392 1-EXXON MOBIL IPP 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8747	GEN334392 1-EXXON MOBIL IPP 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8728	GEN337421 1-OUCHITA CTG1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8728	GEN337423 1-OUCHITA CTG2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8728	GEN337425 1-OUCHITA CTG3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38145	100.8722	SPP-MKEC-08
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.872	GEN337421 1-OUCHITA CTG1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.872	GEN337423 1-OUCHITA CTG2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.872	GEN337425 1-OUCHITA CTG3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38145	100.8718	SPP-MKEC-08
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38103	100.8661	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38103	100.8656	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8599	GEN335075 1-DYNEGY#1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8592	GEN335075 1-DYNEGY#1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.39211	100.8439	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.39211	100.843	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38401	100.8422	DBL-HIT-G084
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38401	100.8422	DBL-HIT-G084
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38401	100.8418	DBL-HIT-G084
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38401	100.8418	DBL-HIT-G084
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38269	100.8412	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38031	100.841	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38269	100.8408	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38031	100.8405	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38103	100.8378	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38103	100.8373	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38174	100.8309	AXTELL - PAULINE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38174	100.8305	AXTELL - PAULINE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8304	GEN506752 1-LEBROCK GAS 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8297	GEN506752 1-LEBROCK GAS 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37962	100.8211	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37962	100.8204	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.813	GEN338500 1-MCCLELLAN UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.8122	GEN338500 1-MCCLELLAN UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7965	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7965	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7957	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7957	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7654	GEN547649 1-ASBURY UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7646	GEN547649 1-ASBURY UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38145	100.7576	SPP-WERE-34
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38145	100.7572	SPP-WERE-34
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7481	GEN511954 S-COGENTRIX STEAM # 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7474	GEN511954 S-COGENTRIX STEAM # 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38154	100.7464	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7462	GEN511953 G-COGENTRIX GAS # 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38154	100.7459	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7455	GEN511953 G-COGENTRIX GAS # 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38145	100.745	SPP-MKEC-05
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38145	100.7446	SPP-MKEC-05
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38170	100.7367	MOORE - PAULINE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38170	100.7362	MOORE - PAULINE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7266	GEN337954 1-LYNCH UNIT #3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7258	GEN337954 1-LYNCH UNIT #3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7234	GEN511836 1-NORTHEASTERN STATION #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7226	GEN511836 1-NORTHEASTERN STATION #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38142	100.7176	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38142	100.7172	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7156	GEN300031 1-CHOUTEAU CTG 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7156	GEN300032 1-CHOUTEAU CTG 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7148	GEN300031 1-CHOUTEAU CTG 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7148	GEN300032 1-CHOUTEAU CTG 2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7139	GEN549890 1-SOUTHWEST 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.7131	GEN549890 1-SOUTHWEST 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38006	100.7096	OGE3TERM47
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38006	100.7089	OGE3TERM47
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38200	100.7049	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38200	100.7044	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38170	100.6968	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38170	100.6964	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38632	100.6941	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6892	GEN335201 1-NELSON UNIT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6892	GEN511938 1-OEC STEAM # 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6884	GEN335201 1-NELSON UNIT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38632	100.6883	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6881	GEN560636 1-ASGI-10-06 0.6900
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6879	GEN511938 1-OEC STEAM # 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6873	GEN560636 1-ASGI-10-06 0.6900
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38191	100.6855	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38191	100.6851	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6809	GEN560639 1-ASGI-10-07 0.6900
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38145	100.6802	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6801	GEN560639 1-ASGI-10-07 0.6900
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38145	100.6797	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38262	100.6704	PITTSBURG - SUNNYSIDE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38263	100.67	PITTSBURG - SUNNYSIDE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6662	GEN338513 1-BAILEY UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6654	GEN338513 1-BAILEY UNIT #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.662	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6612	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38122	100.6543	DOVER SW - OKEENE 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38122	100.6537	DOVER SW - OKEENE 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6513	GEN338510 1-151KNWRI
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6505	GEN547656 1-STATE LINE UNIT #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6505	GEN338510 1-151KNWRI
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6497	GEN547656 1-STATE LINE UNIT #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38207	100.649	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37962	100.645	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37962	100.645	STATLINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37962	100.645	SPP-SWPS-02

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38207	100.6448	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37962	100.6444	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37962	100.6444	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37962	100.6444	SPP-SWPS-02
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6409	GEN503900 1-FITZHUGH CT1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6402	GEN503900 1-FITZHUGH CT1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38149	100.6374	OGE3TERM4
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38149	100.6368	OGE3TERM4
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6368	GEN501910 1-ACADIA UNIT ST1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6361	GEN501910 1-ACADIA UNIT ST1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.635	GEN520811 1-ANADRK4
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38167	100.6345	FAIRFAX TAP - SHIDLER 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38167	100.6339	FAIRFAX TAP - SHIDLER 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6327	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6323	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6318	GEN520811 1-ANADRK4
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6308	GEN335202 1-NELSON UNIT 2
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6301	GEN335202 1-NELSON UNIT 2
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38126	100.6239	TULSA NORTH - WEKIWA 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38126	100.6234	TULSA NORTH - WEKIWA 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6232	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6227	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38167	100.6178	SHIDLER - WEST PAWHUSKA 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38167	100.6172	SHIDLER - WEST PAWHUSKA 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38167	100.6149	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38167	100.6142	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38142	100.6123	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38142	100.6119	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6066	GEN549893 2-SOUTHWEST 2
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6059	GEN549893 2-SOUTHWEST 2
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6053	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6045	GEN506749 1-EASTMAN GENERATION A
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.604	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.6038	GEN506749 1-EASTMAN GENERATION A
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5969	GEN337422 1-OUCHITA STG1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5969	GEN337424 1-OUCHITA STG2
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5969	GEN337426 1-OUCHITA STG3
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5961	GEN337422 1-OUCHITA STG1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5961	GEN337424 1-OUCHITA STG2
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5961	GEN337426 1-OUCHITA STG3
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38167	100.5886	DOMES - PAWHUSKA TAP 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38167	100.5879	DOMES - PAWHUSKA TAP 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38134	100.5806	BARNES 4 138.00 - DRAPER LAKE 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38134	100.5804	OGE3TERM23
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38135	100.58	BARNES 4 138.00 - DRAPER LAKE 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38135	100.5798	OGE3TERM23
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38167	100.5794	DOMES - MOUND ROAD 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38171	100.5789	MORGAN - NEOSHO 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38167	100.5788	DOMES - MOUND ROAD 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5784	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38171	100.5783	MORGAN - NEOSHO 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5777	GEN300003 1-THOMAS HILL UNIT 3
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5776	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5764	GEN300003 1-THOMAS HILL UNIT 3
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5756	GEN335545 1-DOW AEP UNITS
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5749	GEN335545 1-DOW AEP UNITS

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38269	100.5746	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38269	100.5741	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5685	GEN337124 5-LS POWER BATESVILLE
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5678	GEN337124 5-LS POWER BATESVILLE
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38252	100.5654	OTTER - WOODRING 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38145	100.5649	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38145	100.5648	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38252	100.5645	OTTER - WOODRING 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5566	GEN335137 C4-PPG
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5558	GEN335137 C4-PPG
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38116	100.5557	ANADARKO - POCASSETT 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38116	100.5554	ANADARKO - POCASSETT 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.554	GEN520812 1-ANADRK5
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5539	GEN520813 1-ANADRK6
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5534	GEN300016 1-1G1GPDEL 18.000
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5534	GEN300017 1-1G2GPDEL 18.000
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5533	GEN520812 1-ANADRK5
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5532	GEN520813 1-ANADRK6
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5526	GEN300016 1-1G1GPDEL 18.000
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5526	GEN300017 1-1G2GPDEL 18.000
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5514	PUTNAM - TALOGA 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5505	PUTNAM - TALOGA 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37968	100.5473	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.37968	100.5468	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38125	100.5433	DOVER SW (DOVER) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38125	100.5429	DOVER SW (DOVER) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38106	100.5413	CIMARRON - EL RENO 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38106	100.5407	CIMARRON - EL RENO 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38135	100.5382	BROOKLINE - MORGAN 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5377	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5375	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38135	100.5375	BROOKLINE - MORGAN 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5368	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5366	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5365	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5356	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38252	100.5292	OTTER - WARREN VALLEY 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38145	100.5287	OVERTON-TRF
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38116	100.5287	POCASSETT - TUTTLE 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38116	100.5284	POCASSETT - TUTTLE 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38252	100.5282	OTTER - WARREN VALLEY 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38145	100.5281	OVERTON-TRF
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38072	100.5277	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38072	100.5273	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5266	GEN334467 1-DUPONT UNIT#1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5258	GEN334467 1-DUPONT UNIT#1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38142	100.5223	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5222	GEN500915 3-WESTERN KRAFT
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38142	100.5219	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5215	GEN500915 3-WESTERN KRAFT
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38252	100.5214	COW CREEK - WARREN VALLEY 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38252	100.5204	COW CREEK - WARREN VALLEY 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38110	100.5168	WESTMOORE - WILROGR4 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5162	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38110	100.5161	WESTMOORE - WILROGR4 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38126	100.5154	OKEENE - WATONGA SW 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5153	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38126	100.5139	OKEENE - WATONGA SW 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38129	100.513	MORRISON - SOONER 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38130	100.5126	MORRISON - SOONER 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5084	GEN511851 1-COMANCHE #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5079	GEN334335 1-TOLEDO BEND
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5076	GEN511851 1-COMANCHE #1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5072	GEN334335 1-TOLEDO BEND
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5034	GEN334232 1-PELCNRD U1 13.800
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5034	GEN334233 1-PELCNRD U2 13.800
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38101	100.5031	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38135	100.5028	CLINTON - MONTROSE 161KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5027	GEN334232 1-PELCNRD U1 13.800
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.5027	GEN334233 1-PELCNRD U2 13.800
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38101	100.5026	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38135	100.5021	CLINTON - MONTROSE 161KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4956	GEN335546 3-DOW COGEN
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4949	GEN335546 3-DOW COGEN
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38146	100.4916	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38142	100.4916	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38142	100.4912	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38146	100.4911	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38132	100.4893	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.489	GEN334298 1-CYPR U1 13.800
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.489	GEN334299 1-CYPR U2 13.800
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4882	GEN334298 1-CYPR U1 13.800
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4882	GEN334299 1-CYPR U2 13.800
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38132	100.4871	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38149	100.4861	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38149	100.4856	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4795	GEN509408 1-WILKES #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4792	GEN509408 1-WILKES #2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38158	100.4756	NEOSHO (NEOSHO2X) 345/161/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38105	100.4754	DISCVRY - OAKCREEK 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38199	100.4751	RENO COUNTY - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38158	100.4749	NEOSHO (NEOSHO2X) 345/161/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38111	100.4749	DOVER SW - DOVER TAP 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38106	100.4749	DISCVRY - OAKCREEK 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38111	100.4747	DOVER TAP - TURKEY CREEK 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38199	100.4745	RENO COUNTY - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38111	100.4743	DOVER SW - DOVER TAP 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38111	100.4741	DOVER TAP - TURKEY CREEK 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4734	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4734	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4727	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4727	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38125	100.4718	CALUMET - WATONGA SW 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4716	OGE3TERM3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38126	100.4713	CALUMET - WATONGA SW 69KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.468	GEN521129 1-BLUCANS 4 138.00
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4672	GEN521129 1-BLUCANS 4 138.00
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38110	100.4663	PENNSYLVANIA - WESTMOORE 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38110	100.4657	PENNSYLVANIA - WESTMOORE 138KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4643	OGE3TERM3
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38144	100.4627	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	01ALL	2	11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38144	100.4622	NUNDRWD - WAYSIDE 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4604	GEN335644 1-EXXON UNITS
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4596	GEN335644 1-EXXON UNITS
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38116	100.4588	SUNSHINE CANYON - TUTTLE 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38116	100.4584	SUNSHINE CANYON - TUTTLE 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38203	100.4547	CIMARRON - SARA 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38203	100.4541	CIMARRON - SARA 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38142	100.4518	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38142	100.4512	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4464	CORDELL - GOTEBO 69KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38106	100.4432	DISCVRY - FOSTER 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38105	100.4426	DISCVRY - FOSTER 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38017	100.4417	COTTONWOOD CREEK - LBRTYLK4 138.00 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38017	100.4412	COTTONWOOD CREEK - LBRTYLK4 138.00 138KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4342	GEN506753 1-LEBROCK GAS 2
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4335	GEN506753 1-LEBROCK GAS 2
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38111	100.4277	BOWMAN - TURKEY CREEK 69KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38154	100.4276	CLEVELAND (CLVAUTO1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38111	100.4271	BOWMAN - TURKEY CREEK 69KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38154	100.427	CLEVELAND (CLVAUTO1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38137	100.4193	EL RENO - SERVICE PL EL RENO 69KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38137	100.4188	EL RENO - SERVICE PL EL RENO 69KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38138	100.4172	SPP-WERE-30
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.4166	SPP-WERE-30
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38091	100.4004	PECAN CREEK - RIVERSIDE STATION 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38091	100.3998	PECAN CREEK - RIVERSIDE STATION 345KV CKT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.3547	GEN560603 1-G07-06 0.6000
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.3539	GEN560603 1-G07-06 0.6000
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.1352	BASE CASE
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.1343	BASE CASE
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.1262	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38139	100.1247	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01ALL		3 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38138	100.1334	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL		3 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38138	100.1334	CIMARRON - MATTHEWSON 345.00 345KV CKT 2
FDNS	01ALL		3 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38138	100.1343	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL		3 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.38138	100.1343	CIMARRON - MATTHEWSON 345.00 345KV CKT 2
FDNS	02ALL		2 11G	G11_007	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.52915	128.6358	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	02ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.58539	114.689	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	03ALL		2 11G	G11_007	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.52826	140.2344	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	03ALL		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.58487	122.7555	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00NR		2 12SP	G11_007	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.63563	114.2931	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR		2 12SP	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.70499	100.4377	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00NR		2 12WP	G11_007	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.61359	124.9704	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR		2 12WP	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.68185	111.1275	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00NR		2 16SP	G11_007	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.62450	124.0189	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR		2 16SP	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.69847	108.3724	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00NR		2 16WP	G11_007	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.61341	123.7113	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR		2 16WP	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.68552	110.9874	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01NR		2 11G	G11_007	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.61000	156.9428	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01NR		2 11G	G11_007	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.68197	138.8338	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FNSL-Blown up	3		0 11G	G11_008		Non Converged Contingency	0	0.52142	-	DBL-COM-MEDL
FNSL-Blown up	3		0 11G	G11_008		Non Converged Contingency	0	0.32881	-	DBL-MEDLO-WI
FNSL-Blown up	3		2 11G	G11_008		Non Converged Contingency	0	0.52121	-	DBL-COM-MEDL
FNSL-Blown up	3		2 11G	G11_008		Non Converged Contingency	0	0.31846	-	DBL-MEDLO-WI
FNSL-Blown up	3		3 11G	G11_008		Non Converged Contingency	0	0.52131	-	DBL-COM-MEDL
FNSL-Blown up	3		3 11G	G11_008		Non Converged Contingency	0	0.31830	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL		0 11G	G11_008		Non Converged Contingency	1195	0.11770	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	01ALL	0	11G	G11_008		Non Converged Contingency	1195	0.11770	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_008		Non Converged Contingency	1195	0.11770	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_008		Non Converged Contingency	0	0.33033	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	G11_008		Non Converged Contingency	0	0.32500	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	G11_008		Non Converged Contingency	0	0.04604	-	DBL-G0847-WO
FNSL-Blown up	02ALL	2	11G	G11_008		Non Converged Contingency	0	0.05238	-	DBL-G0847-WO
FNSL-Blown up	02ALL	3	11G	G11_008		Non Converged Contingency	0	0.05284	-	DBL-G0847-WO
FNSL-Blown up	03ALL	0	11G	G11_008		Non Converged Contingency	1195	0.10492	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_008		Non Converged Contingency	1195	0.10492	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_008		Non Converged Contingency	1195	0.10492	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_008		Non Converged Contingency	1052	0.06173	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_008		Non Converged Contingency	1792	0.12475	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_008		Non Converged Contingency	1328	0.03884	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_008		Non Converged Contingency	1195	0.10619	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_008		Non Converged Contingency	1195	0.10619	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_008		Non Converged Contingency	1792	0.10310	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_008		Non Converged Contingency	0	0.47444	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	0	11G	G11_008		Non Converged Contingency	0	0.28076	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	0	11G	G11_008		Non Converged Contingency	0	0.03452	-	DBL-G0847-WO
FNSL-Blown up	03ALL	0	11G	G11_008		Non Converged Contingency	0	0.17270	-	DBL-WOOD-MED
FNSL-Blown up	03ALL	2	11G	G11_008		Non Converged Contingency	1195	0.12999	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_008		Non Converged Contingency	1052	0.06332	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_008		Non Converged Contingency	1195	0.10464	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_008		Non Converged Contingency	1792	0.23747	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_008		Non Converged Contingency	1792	0.23747	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 2
FNSL-Blown up	03ALL	2	11G	G11_008		Non Converged Contingency	0	0.47494	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	2	11G	G11_008		Non Converged Contingency	0	0.27204	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G11_008		Non Converged Contingency	1792	0.13160	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_008		Non Converged Contingency	1195	0.10463	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_008		Non Converged Contingency	1195	0.10463	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_008		Non Converged Contingency	0	0.47507	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	3	11G	G11_008		Non Converged Contingency	0	0.27191	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G11_008		Non Converged Contingency	0	0.04102	-	DBL-G0847-WO
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	1792	0.13144	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	1792	0.13144	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	1052	0.06296	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	1052	0.06296	-	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	398	0.03358	-	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	1792	0.12222	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	1195	0.10391	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	1195	0.10391	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	1792	0.13532	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	1792	0.13532	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	1792	0.10578	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	1195	0.10391	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	956	0.03239	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	1792	0.23692	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	1792	0.23692	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 2
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	0	0.47384	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	0	0.27063	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	4	11G	G11_008		Non Converged Contingency	0	0.18276	-	DBL-WOOD-MED
FNSL-Blown up	03G11_008	0	11G	G11_008		Non Converged Contingency	0	0.52109	-	DBL-COM-MEDL
FNSL-Blown up	03G11_008	0	11G	G11_008		Non Converged Contingency	0	0.32837	-	DBL-MEDLO-WI
FNSL-Blown up	03G11_008	2	11G	G11_008		Non Converged Contingency	0	0.52089	-	DBL-COM-MEDL
FNSL-Blown up	03G11_008	2	11G	G11_008		Non Converged Contingency	0	0.31806	-	DBL-MEDLO-WI
FNSL-Blown up	03G11_008	3	11G	G11_008		Non Converged Contingency	0	0.52100	-	DBL-COM-MEDL

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	03G11_008	3	11G	G11_008		Non Converged Contingency	0	0.31790	-	DBL-MEDLO-WI
FDNS	2	2	11G	G11_008	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23037	121.0025	DBL-MEDLO-WI
FDNS	2	2	11G	G11_008	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23037	121.0023	DBL-MEDLO-WI
FDNS	02ALL	2	11G	G11_008	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22846	144.3307	DBL-MEDLO-WI
FDNS	02ALL	2	11G	G11_008	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22846	144.3306	DBL-MEDLO-WI
FDNS	03ALL	5	11G	G11_008	TO->FROM	BENTON - WICHITA 345KV CKT 1	956	0.19106	103.8017	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	03ALL	5	11G	G11_008	TO->FROM	BENTON - WICHITA 345KV CKT 1	956	0.19106	101.6363	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_010		Non Converged Contingency	0	0.05410	-	DBL-G0847-WO
FNSL-Blown up	01ALL	0	11G	G11_010		Non Converged Contingency	0	0.04187	-	DBL-WOOD-MED
FNSL-Blown up	3	0	11G	G11_012		Non Converged Contingency	0	0.05664	-	DBL-COM-MEDL
FNSL-Blown up	3	0	11G	G11_012		Non Converged Contingency	0	0.20914	-	DBL-MEDLO-WI
FNSL-Blown up	3	2	11G	G11_012		Non Converged Contingency	0	0.05622	-	DBL-COM-MEDL
FNSL-Blown up	3	2	11G	G11_012		Non Converged Contingency	0	0.19370	-	DBL-MEDLO-WI
FNSL-Blown up	3	3	11G	G11_012		Non Converged Contingency	0	0.05629	-	DBL-COM-MEDL
FNSL-Blown up	3	3	11G	G11_012		Non Converged Contingency	0	0.19358	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G11_012		Non Converged Contingency	1195	0.15869	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_012		Non Converged Contingency	1195	0.15869	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_012		Non Converged Contingency	1195	0.15869	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_012		Non Converged Contingency	0	0.21046	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G11_012		Non Converged Contingency	0	0.16890	-	DBL-WOOD-MED
FNSL-Blown up	02ALL	0	11G	G11_012		Non Converged Contingency	0	0.20513	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	G11_012		Non Converged Contingency	0	0.29300	-	DBL-G0847-WO
FNSL-Blown up	02ALL	2	11G	G11_012		Non Converged Contingency	0	0.40108	-	DBL-HIT-G084
FNSL-Blown up	02ALL	2	11G	G11_012		Non Converged Contingency	0	0.30232	-	DBL-G0847-WO
FNSL-Blown up	02ALL	3	11G	G11_012		Non Converged Contingency	0	0.40136	-	DBL-HIT-G084
FNSL-Blown up	02ALL	3	11G	G11_012		Non Converged Contingency	0	0.30267	-	DBL-G0847-WO
FNSL-Blown up	03ALL	0	11G	G11_012		Non Converged Contingency	1195	0.15054	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_012		Non Converged Contingency	1195	0.15054	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_012		Non Converged Contingency	1195	0.15054	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_012		Non Converged Contingency	1792	0.06015	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_012		Non Converged Contingency	1328	0.07285	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_012		Non Converged Contingency	1195	0.05220	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_012		Non Converged Contingency	1195	0.05220	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_012		Non Converged Contingency	0	0.03315	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	0	11G	G11_012		Non Converged Contingency	0	0.03315	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	0	11G	G11_012		Non Converged Contingency	0	0.18491	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	0	11G	G11_012		Non Converged Contingency	0	0.28986	-	DBL-G0847-WO
FNSL-Blown up	03ALL	2	11G	G11_012		Non Converged Contingency	1195	0.19003	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_012		Non Converged Contingency	1195	0.04972	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_012		Non Converged Contingency	0	0.03382	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	2	11G	G11_012		Non Converged Contingency	0	0.03382	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	2	11G	G11_012		Non Converged Contingency	0	0.17099	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G11_012		Non Converged Contingency	1792	0.19125	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_012		Non Converged Contingency	1195	0.04972	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_012		Non Converged Contingency	1195	0.04972	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_012		Non Converged Contingency	0	0.03392	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	3	11G	G11_012		Non Converged Contingency	0	0.03392	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	3	11G	G11_012		Non Converged Contingency	0	0.17090	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G11_012		Non Converged Contingency	0	0.29967	-	DBL-G0847-WO
FNSL-Blown up	03ALL	4	11G	G11_012		Non Converged Contingency	1792	0.19037	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_012		Non Converged Contingency	1792	0.19037	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_012		Non Converged Contingency	1792	0.05675	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_012		Non Converged Contingency	1195	0.04883	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_012		Non Converged Contingency	1195	0.04883	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_012		Non Converged Contingency	1792	0.08460	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_012		Non Converged Contingency	1792	0.08460	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	03ALL		4	11G	G11_012	Non Converged Contingency	1195	0.04883	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4	11G	G11_012	Non Converged Contingency	956	0.05190	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FNSL-Blown up	03ALL		4	11G	G11_012	Non Converged Contingency	0	0.03238	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		4	11G	G11_012	Non Converged Contingency	0	0.16920	-	DBL-MEDLO-WI
FDNS	1		0	11G	G11_012	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20548	138.0853	DBL-MEDLO-WI
FDNS	1		0	11G	G11_012	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20447	133.7625	DBL-WOOD-MED
FDNS	2		0	11G	G11_012	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20037	116.9574	DBL-MEDLO-WI
FDNS	2		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.24893	121.0025	DBL-MEDLO-WI
FDNS	2		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.24893	121.0023	DBL-MEDLO-WI
FDNS	2		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.24601	107.3592	DBL-WOOD-MED
FDNS	2		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.24601	107.3592	DBL-WOOD-MED
FDNS	2		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22148	105.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22148	105.0432	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	11G	G11_012	TO->FROM FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.32713	115.1098	DBL-HIT-G084
FDNS	02ALL		0	11G	G11_012	FROM->TO GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.22832	101.1175	DBL-WOOD-MED
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.24672	144.3307	DBL-MEDLO-WI
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.24672	144.3306	DBL-MEDLO-WI
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.24368	128.378	DBL-WOOD-MED
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.24368	128.378	DBL-WOOD-MED
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21911	117.5903	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21911	117.5627	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21911	116.5021	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21911	116.4728	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	TO->FROM FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.32674	115.1342	DBL-HIT-G084
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20581	112.2816	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20581	112.2816	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20581	112.2815	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20581	112.2815	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20870	110.92	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20870	110.8274	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20763	110.1515	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20763	110.1515	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20763	110.1381	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20763	110.1381	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20591	109.5072	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20591	109.3497	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20228	108.4247	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20228	108.424	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20228	108.3668	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20228	108.3661	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20193	108.0719	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20193	108.0344	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20108	108.0146	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20108	107.974	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20255	107.6363	SPP-SWPS-03
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20255	107.5843	SPP-SWPS-03
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20228	107.2237	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20228	107.1703	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20228	106.8453	SPP-SWPS-02
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20228	106.8453	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20228	106.8453	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20228	106.7965	SPP-SWPS-02
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20228	106.7965	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_012	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20228	106.7965	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20228	106.4708	SPP-SWPS-02A
FDNS	02ALL		2	11G	G11_012	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20507	106.4431	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_012	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20228	106.42	SPP-SWPS-02A
FDNS	02ALL	2	11G	G11_012	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20507	106.3834	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_012	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20591	104.7208	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_012	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20591	104.6626	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL	3	11G	G11_012	TO->FROM	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.32681	115.2728	DBL-HIT-G084
FDNS	02G11_012	0	11G	G11_012	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20032	117.4607	DBL-MEDLO-WI
FDNS	02G11_012	0	11G	G11_012	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.27575	100.078	DBL-G0847-WO
FDNS	02G11_012	2	11G	G11_012	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.24887	121.593	DBL-MEDLO-WI
FDNS	02G11_012	2	11G	G11_012	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.24887	121.5928	DBL-MEDLO-WI
FDNS	02G11_012	2	11G	G11_012	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.24595	107.8969	DBL-WOOD-MED
FDNS	02G11_012	2	11G	G11_012	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.24595	107.8969	DBL-WOOD-MED
FDNS	02G11_012	2	11G	G11_012	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22142	105.4736	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02G11_012	2	11G	G11_012	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22142	105.473	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02G11_012	2	11G	G11_012	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.27526	100	DBL-G0847-WO
FDNS	02G11_012	3	11G	G11_012	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.27534	100.1249	DBL-G0847-WO
FDNS	03ALL	2	11G	G11_012	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20097	103.615	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	11G	G11_012	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20097	103.615	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	11G	G11_012	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20097	103.6141	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	11G	G11_012	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20097	103.6141	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	01ALL	0	11G	G11_013		Non Converged Contingency	0	0.04093	-	DBL-G0847-WO
FNSL-Blown up	01ALL	0	11G	G11_013		Non Converged Contingency	0	0.03600	-	DBL-WOOD-MED
FNSL-Blown up	3	0	11G	G11_014		Non Converged Contingency	0	0.05314	-	DBL-COM-MEDL
FNSL-Blown up	3	0	11G	G11_014		Non Converged Contingency	0	0.23433	-	DBL-MEDLO-WI
FNSL-Blown up	3	2	11G	G11_014		Non Converged Contingency	0	0.05260	-	DBL-COM-MEDL
FNSL-Blown up	3	2	11G	G11_014		Non Converged Contingency	0	0.21555	-	DBL-MEDLO-WI
FNSL-Blown up	3	3	11G	G11_014		Non Converged Contingency	0	0.05271	-	DBL-COM-MEDL
FNSL-Blown up	3	3	11G	G11_014		Non Converged Contingency	0	0.21538	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G11_014		Non Converged Contingency	1195	0.19019	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_014		Non Converged Contingency	1195	0.19019	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_014		Non Converged Contingency	1195	0.19019	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_014		Non Converged Contingency	0	0.23577	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G11_014		Non Converged Contingency	0	0.20085	-	DBL-WOOD-MED
FNSL-Blown up	02ALL	0	11G	G11_014		Non Converged Contingency	0	0.23043	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	G11_014		Non Converged Contingency	0	0.50091	-	DBL-G0847-WO
FNSL-Blown up	02ALL	2	11G	G11_014		Non Converged Contingency	0	0.51225	-	DBL-G0847-WO
FNSL-Blown up	02ALL	3	11G	G11_014		Non Converged Contingency	0	0.51276	-	DBL-G0847-WO
FNSL-Blown up	03ALL	0	11G	G11_014		Non Converged Contingency	1195	0.18105	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_014		Non Converged Contingency	1195	0.18105	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_014		Non Converged Contingency	1195	0.18105	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_014		Non Converged Contingency	1792	0.06618	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_014		Non Converged Contingency	1328	0.06724	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_014		Non Converged Contingency	1195	0.05561	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_014		Non Converged Contingency	1195	0.05561	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_014		Non Converged Contingency	0	0.20805	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	0	11G	G11_014		Non Converged Contingency	0	0.49535	-	DBL-G0847-WO
FNSL-Blown up	03ALL	2	11G	G11_014		Non Converged Contingency	1195	0.22902	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_014		Non Converged Contingency	1195	0.05259	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_014		Non Converged Contingency	0	0.19110	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G11_014		Non Converged Contingency	1792	0.23080	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_014		Non Converged Contingency	1195	0.05258	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_014		Non Converged Contingency	1195	0.05258	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_014		Non Converged Contingency	0	0.19096	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G11_014		Non Converged Contingency	0	0.50734	-	DBL-G0847-WO
FNSL-Blown up	03ALL	4	11G	G11_014		Non Converged Contingency	1792	0.23070	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_014		Non Converged Contingency	1792	0.23070	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_014		Non Converged Contingency	1792	0.06241	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FNSL-Blown up	03ALL		4	11G	G11_014	Non Converged Contingency	1195	0.05187	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_014	Non Converged Contingency	1195	0.05187	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_014	Non Converged Contingency	1792	0.09486	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_014	Non Converged Contingency	1792	0.09486	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2	
FNSL-Blown up	03ALL		4	11G	G11_014	Non Converged Contingency	1195	0.05187	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_014	Non Converged Contingency	956	0.04824	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_014	Non Converged Contingency	0	0.18971	-	DBL-MEDLO-WI	
FNSL	02ALL		2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23302	102.7649	DBL-SPRVL-CO
FNSL	02ALL		2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23302	102.6977	DBL-SPRVL-CO
FDNS	1		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24251	138.0853	DBL-MEDLO-WI
FDNS	1		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24453	133.7625	DBL-WOOD-MED
FDNS	1		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20225	118.5755	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	1		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20521	115.8282	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	1		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20521	115.8282	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	1		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20206	115.3817	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	1		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20206	115.3817	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	1		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20225	112.9962	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	1		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20016	112.92	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	1		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20225	112.2525	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	1		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20305	111.5833	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	1		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20857	110.4301	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	1		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21186	109.3945	DBL-HIT-G084
FDNS	1		2	11G	G11_014	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.20345	131.1941	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	1		2	11G	G11_014	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.20346	131.1907	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	2		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23740	116.9574	DBL-MEDLO-WI
FDNS	2		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23967	105.8729	DBL-WOOD-MED
FDNS	2		2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29521	121.0025	DBL-MEDLO-WI
FDNS	2		2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29521	121.0023	DBL-MEDLO-WI
FDNS	2		2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29576	107.3592	DBL-WOOD-MED
FDNS	2		2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29576	107.3592	DBL-WOOD-MED
FDNS	2		2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.24665	105.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.24665	105.0432	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20323	151.5356	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20605	150.1586	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20605	150.1586	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01ALL		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20296	147.1828	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20296	147.1828	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20122	143.6584	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20323	143.3309	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01ALL		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20323	142.3323	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20396	141.9766	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20947	140.9176	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01ALL		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21294	139.221	DBL-HIT-G084
FDNS	01ALL		0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21294	139.221	DBL-HIT-G084
FDNS	01ALL		2	11G	G11_014	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.20591	156.053	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL		2	11G	G11_014	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.20591	156.0502	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23242	102.801	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23242	102.7725	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23253	101.9173	LACYGNE - STILWELL 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23253	101.8867	LACYGNE - STILWELL 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.9765	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.9452	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23284	104.1295	LACYGNE - NEOSHO 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23284	104.1056	LACYGNE - NEOSHO 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23336	103.0816	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23336	103.0547	HOYT - STRANGER CREEK 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23265	102.7825	CRAIG - STRANGER CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23265	102.7529	CRAIG - STRANGER CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23326	103.4234	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23326	103.3981	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23254	102.7611	ROSE HILL - WOLF CREEK 345KV CKT 1
FDNS	02ALL		0 11G	G11_014	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1		1195	0.23792	123.3172	DBL-WOOD-MED
FDNS	02ALL		0 11G	G11_014	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1		1195	0.20317	101.6266	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	02ALL		0 11G	G11_014	FROM->TO	GRAY CO	345.00 - SPEARVILLE 345KV CKT 1		1328	0.24901	101.1175	DBL-WOOD-MED
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.29319	144.3307	DBL-MEDLO-WI
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.29319	144.3306	DBL-MEDLO-WI
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.29362	128.378	DBL-WOOD-MED
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.29362	128.378	DBL-WOOD-MED
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.24458	117.5903	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.24458	117.5627	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.24458	116.5021	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.24458	116.4728	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.24755	112.2816	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.24755	112.2816	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.24755	112.2815	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.24755	112.2815	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.24959	110.92	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.24959	110.8274	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.25072	110.1515	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.25072	110.1515	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.25072	110.1381	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.25072	110.1381	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23855	109.5072	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23855	109.3497	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	108.6311	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	108.6109	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23513	108.4247	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23513	108.424	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23513	108.3668	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23513	108.3661	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.24152	108.0719	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.24152	108.0344	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.24062	108.0146	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.24062	107.974	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	107.9721	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	107.9518	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23947	107.6583	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23522	107.6363	SPP-SWPS-03
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23947	107.6331	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23522	107.5843	SPP-SWPS-03
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	107.434	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	107.4121	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.24019	107.2905	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.24019	107.276	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23513	107.2237	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23513	107.1703	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	107.0557	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	107.0341	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23947	106.9542	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23947	106.9278	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.24019	106.9071	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.24019	106.8918	DEWEY - SOUTHARD 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23513	106.8453	SPP-SWPS-02
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23513	106.8453	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23513	106.8453	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23513	106.7965	SPP-SWPS-02
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23513	106.7965	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23513	106.7965	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.24019	106.4995	ROMAN NOSE - SOUTHARD 138KV
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.24019	106.4824	ROMAN NOSE - SOUTHARD 138KV
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23513	106.4708	SPP-SWPS-02A
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.25659	106.4431	2008-047T 345.00 - GRAY CO 345.00 345KV
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23513	106.42	SPP-SWPS-02A
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.25659	106.3834	2008-047T 345.00 - GRAY CO 345.00 345KV
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	106.3071	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	106.2837	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	106.2734	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	106.2524	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	106.0462	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23419	106.0354	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	106.0222	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	106.0212	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23896	106.0084	HOLCOMB - SETAB 345KV
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	105.9983	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23419	105.9911	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	105.9825	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23896	105.9704	HOLCOMB - SETAB 345KV
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	105.9573	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23805	105.8922	GLASS MOUNTAIN - MOORELAND 138KV
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23924	105.8848	CLEO CORNER - MEN TAP 138KV
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23805	105.8743	GLASS MOUNTAIN - MOORELAND 138KV
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23924	105.868	CLEO CORNER - MEN TAP 138KV
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23924	105.8549	IMO TAP - MEN TAP 138KV
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23924	105.8381	IMO TAP - MEN TAP 138KV
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23805	105.7962	CLEO CORNER - GLASS MOUNTAIN 138KV
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23805	105.7783	CLEO CORNER - GLASS MOUNTAIN 138KV
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	105.7178	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	105.6965	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	105.6286	GEN509403 1-PIRKEY GENERATION
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	105.6064	GEN509403 1-PIRKEY GENERATION
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	105.5757	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	105.5513	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23571	105.5435	CLINTON JUNCTION - ELK CITY 138KV
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23571	105.5178	CLINTON JUNCTION - ELK CITY 138KV
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	105.4831	GEN501813 1-RODEMACHER UNIT 3
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	105.4603	GEN515226 1-MUSKOGEE 6G
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	105.4591	GEN501813 1-RODEMACHER UNIT 3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	105.4379	GEN515226 1-MUSKOGEE 6G
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	105.4263	GEN337041 1-GERALD ANDRUS
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	105.4225	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	105.4011	GEN337041 1-GERALD ANDRUS
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23976	105.3987	BENTON - WICHITA 345KV
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	105.3977	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23976	105.3818	BENTON - WICHITA 345KV
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	105.3098	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23697	105.2896	G08-13T 345.00 - WOODRING 345KV
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23724	105.2847	AXTELL - POSTROCK 345.00 345KV
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	105.2833	GEN338189 1-LS POWER OSCEOLA UNIT G1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23697	105.2717	G08-13T	345.00 - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23724	105.2596	AXTELL - POSTROCK7	345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23973	105.2428	MOORELAND	345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23973	105.2052	MOORELAND	345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23973	105.2049	MOORELAND	345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	105.1953	GEN520947	1-HUGO1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23678	105.192	CEDARDALE - MOORELAND	138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	105.1732	GEN520947	1-HUGO1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23678	105.172	CEDARDALE - MOORELAND	138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23973	105.1694	MOORELAND	345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23678	105.1447	CEDARDALE - OKEENE	138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23678	105.1248	CEDARDALE - OKEENE	138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	105.1048	GEN336831	1-BAXTER WILSON SES
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	105.0947	GEN501812	1-RODEMACHER UNIT 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	105.0794	GEN336831	1-BAXTER WILSON SES
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	105.0736	GEN515223	1-MUSKOGEE 4G
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	105.0699	GEN501812	1-RODEMACHER UNIT 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	105.0502	GEN515223	1-MUSKOGEE 4G
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	105.0471	GEN335206	1-NELSON UNIT 6
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	105.0332	GEN515225	1-MUSKOGEE 5G
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	105.0221	GEN335206	1-NELSON UNIT 6
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	105.0136	GEN509406	1-WELSH #3
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	105.0135	GEN509404	1-WELSH #1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	105.0135	GEN509405	1-WELSH #2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	105.0098	GEN515225	1-MUSKOGEE 5G
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.9901	GEN509406	1-WELSH #3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.99	GEN509404	1-WELSH #1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.99	GEN509405	1-WELSH #2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	104.8944	GEN334440	1-SABINE UNIT 4
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.8692	GEN334440	1-SABINE UNIT 4
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	104.8067	GEN509394	1-FLINT CREEK
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.7809	GEN509394	1-FLINT CREEK
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	104.7793	GEN335204	1-NELSON UNIT 4
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.7538	GEN335204	1-NELSON UNIT 4
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.24680	104.7517	BORDER	7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23855	104.7208	Hitchland Interchange - STEVENSCO	345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.24680	104.7175	BORDER	7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23855	104.6626	Hitchland Interchange - STEVENSCO	345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	104.66	GEN511841	1-NORTHEASTERN STATION #4
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	104.6358	GEN511840	1-NORTHEASTERN STATION #3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.6342	GEN511841	1-NORTHEASTERN STATION #4
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	104.6266	GEN511839	1-NORTHEASTERN STATION #2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.61	GEN511840	1-NORTHEASTERN STATION #3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.6008	GEN511839	1-NORTHEASTERN STATION #2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	104.5547	GEN334441	1-SABINE UNIT 5
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.5289	GEN334441	1-SABINE UNIT 5
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	104.5028	GEN336801	1-BAXTER WILSON UNIT #1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	104.4947	GEN512689	1-GRDA1 GSU1 22
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.4762	GEN336801	1-BAXTER WILSON UNIT #1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23635	104.4715	DOVER SW - OKEENE	138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.4689	GEN512689	1-GRDA1 GSU1 22
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	104.4627	GEN560282	1-G08-19 0.6000
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23635	104.4507	DOVER SW - OKEENE	138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.4452	GEN560282	1-G08-19 0.6000
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	104.3972	GEN562010	1-G11-024 0.6900
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	104.3868	GEN562010	1-G11-024 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	104.3779	GEN512688 2-GRDA1 GSU2 22
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23697	104.3746	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23697	104.352	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	104.3518	GEN512688 2-GRDA1 GSU2 22
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	104.3498	GEN560175 1-G07-44 0.5750
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	104.3451	GEN560175 1-G07-44 0.5750
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23201	104.3329	CIMARRON - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23201	104.3113	CIMARRON - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23410	104.2796	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	104.267	GEN515042 1-SEMINOLE 3G
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23410	104.2473	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	104.2432	GEN515042 1-SEMINOLE 3G
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23443	104.2324	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23447	104.2077	SPP-MKEC-08
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23443	104.205	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23302	104.1873	DBL-COM-MEDL
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23447	104.1796	SPP-MKEC-08
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23443	104.1777	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23437	104.1596	CIRCLE - MULLERGREEN 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23413	104.1577	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23443	104.1516	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23437	104.129	CIRCLE - MULLERGREEN 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23413	104.1286	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23644	104.0892	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23644	104.0566	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	104.0388	GEN515041 1-SEMINOLE 2G
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	104.0156	GEN515040 1-SEMINOLE 1G
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	104.0143	GEN515041 1-SEMINOLE 2G
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.9906	GEN515040 1-SEMINOLE 1G
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23440	103.9715	MULLERGREEN - SPEARVILLE 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.9576	GEN509409 1-WILKES #3
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23440	103.9405	MULLERGREEN - SPEARVILLE 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.9322	GEN509409 1-WILKES #3
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23535	103.9133	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23535	103.8857	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.8703	GEN336170 1-GULF OXY U4
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.8427	GEN336170 1-GULF OXY U4
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23535	103.8391	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.8308	GEN514910 2-REDBUD GEN
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.8308	GEN514911 2-REDBUD GEN
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23447	103.8113	SPP-WERE-34
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23535	103.8111	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23447	103.8076	SPP-MKEC-05
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.805	GEN514910 2-REDBUD GEN
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.805	GEN514911 2-REDBUD GEN
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23447	103.7861	SPP-WERE-34
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23447	103.7823	SPP-MKEC-05
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.7648	GEN514998 1-MCCLAIN UNIT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.7648	GEN514999 1-MCCLAIN UNIT 2
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.7639	GEN560115 1-G08-44 0.6900
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.7552	GEN560648 1-G07-21 0.5750
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.7442	GEN560115 1-G08-44 0.6900
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23410	103.7437	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.7401	GEN560648 1-G07-21 0.5750
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.7397	GEN514998 1-MCCLAIN UNIT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.7397	GEN514999 1-MCCLAIN UNIT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23426	103.7371	AXTELL - PAULINE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23646	103.7194	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23410	103.7123	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23426	103.7084	AXTELL - PAULINE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	103.7066	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	103.7057	GEN511843 1-RIVERSIDE STATION #2
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23646	103.6952	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	103.6792	GEN511843 1-RIVERSIDE STATION #2
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	103.6712	GEN300006 1-NEW MADRID UNIT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	103.6695	GEN334070 1-LEWIS CREEK 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	103.6651	GEN300007 1-NEW MADRID UNIT 2
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	103.6571	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	103.6558	GEN514899 1-REDBUD1S
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	103.6558	GEN514900 1-REDBUD2S
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23447	103.6458	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	103.6429	GEN334070 1-LEWIS CREEK 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	103.6424	GEN300006 1-NEW MADRID UNIT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	103.6362	GEN300007 1-NEW MADRID UNIT 2
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	103.6294	GEN514899 1-REDBUD1S
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	103.6294	GEN514900 1-REDBUD2S
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23398	103.629	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23447	103.6205	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23398	103.6026	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23398	103.6022	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23415	103.6007	MOORE - PAULINE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23656	103.585	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23398	103.5763	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23415	103.5717	MOORE - PAULINE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23656	103.5657	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23656	103.5599	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23201	103.5576	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23466	103.5522	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23656	103.5409	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23201	103.5313	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23466	103.5293	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23335	103.4834	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23329	103.477	WRTOD400
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23329	103.4519	WRTOD400
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23335	103.4465	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23466	103.4221	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23466	103.398	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23524	103.3871	DOVER SW - HENESSEY 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23387	103.3776	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23524	103.3604	DOVER SW - HENESSEY 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23973	103.3581	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	103.3502	GEN560639 1-ASGI-10-07 0.6900
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	103.3489	GEN560636 1-ASGI-10-06 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23387	103.348	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23223	103.3451	GRACMNT7 345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23550	103.3412	0GE3TERM1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	103.3218	GEN560639 1-ASGI-10-07 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	103.3206	GEN560636 1-ASGI-10-06 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23973	103.3199	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23293	103.3198	TRF-STEGALL
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23293	103.3176	STEGALL TY 345/230KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23293	103.3168	NEB01WAPAB3



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23223	103.3159	GRACMNT7 345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23293	103.3147	STEGALL - STEGALL TRANSFORMER 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.314	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.314	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23550	103.3137	OGE3TERM1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23331	103.3093	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.3051	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.2987	GEN334030 1-FRONTIER UNIT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23524	103.2903	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23293	103.2902	TRF-STEGALL
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23312	103.2899	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23293	103.2878	STEGALL TY 345/230KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23293	103.2871	NEB01WAPAB3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.2865	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.2865	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23293	103.285	STEGALL - STEGALL TRANSFORMER 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23331	103.2807	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.2776	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.2711	GEN334030 1-FRONTIER UNIT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23524	103.2631	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23312	103.2623	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23312	103.259	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.2514	GEN501823 1-TECHE UNIT 3
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23524	103.2484	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.2402	GEN318007 1-5MOROW161 161.00
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.2397	GEN505432 1-SIKESTON
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23373	103.2366	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.2324	GEN337428 1-PERYVILLE UNIT #1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.2324	GEN337430 1-PERYVILLE UNIT #3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23312	103.2315	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.2228	GEN501823 1-TECHE UNIT 3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23524	103.2208	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.2206	GEN514905 1-REDBUD3S
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23373	103.217	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.2119	GEN334031 1-FRONTIER UNIT 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.2115	GEN318007 1-5MOROW161 161.00
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.2108	GEN337429 1-PERYVILLE UNIT #2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.2108	GEN337432 1-PERYVILLE UNIT #5
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.2103	GEN505432 1-SIKESTON
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23334	103.2091	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23373	103.2086	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.2043	GEN337428 1-PERYVILLE UNIT #1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.2043	GEN337430 1-PERYVILLE UNIT #3
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1972	GEN515266 1-AES 1G
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1972	GEN515267 1-AES 2G
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1928	GEN514905 1-REDBUD3S
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23373	103.1889	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1883	GEN335203 1-NELSON UNIT 3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1841	GEN334031 1-FRONTIER UNIT 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1827	GEN337429 1-PERYVILLE UNIT #2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1826	GEN337432 1-PERYVILLE UNIT #5
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23312	103.1819	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23334	103.1789	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23312	103.1787	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23453	103.1777	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1745	GEN560687 1-G11-007 0.5750

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23331	103.1741	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1739	GEN337125 6-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23312	103.1715	SPP-SWPS-T54
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23401	103.1707	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1692	GEN515266 1-AES 1G
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1692	GEN515267 1-AES 2G
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1663	GEN335076 1-DYNEGY UNIT2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1653	GEN337006 1-DUKE MCADAMS G1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1653	GEN337007 1-DUKE MCADAMS G2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1619	GEN560323 1-G10-40 0.6900
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23331	103.16	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1596	GEN335203 1-NELSON UNIT 3
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1555	GEN501911 1-ACADIA UNIT CT1A
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1553	GEN336167 1-GULF OXY U1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1553	GEN336168 1-GULF OXY U2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1553	GEN336169 1-GULF OXY U3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23453	103.1522	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23312	103.1511	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1496	GEN337008 1-DUKE MCADAMS S1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1486	GEN560687 1-G11-007 0.5750
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23312	103.1479	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1469	GEN334392 1-EXXON MOBIL IPP 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1456	GEN337125 6-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23331	103.1449	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23466	103.1429	LATHAM57 345.00 - ROSE HILL 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1425	GEN337421 1-OUCHITA CTG1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1425	GEN337423 1-OUCHITA CTG2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1425	GEN337425 1-OUCHITA CTG3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23401	103.1414	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23312	103.1408	SPP-SWPS-T54
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1402	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1402	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1382	GEN335076 1-DYNEGY UNIT2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1369	GEN337006 1-DUKE MCADAMS G1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1369	GEN337007 1-DUKE MCADAMS G2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1359	GEN560323 1-G10-40 0.6900
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1354	GEN506752 1-LEBROCK GAS 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1344	GEN335075 1-DYNEGY#1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.1334	GEN514912 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23331	103.1309	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23335	103.1292	AMARILLO SOUTH INTERCHANGE - G07-48T 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1269	GEN501911 1-ACADIA UNIT CT1A
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1266	GEN336167 1-GULF OXY U1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1266	GEN336168 1-GULF OXY U2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1266	GEN336169 1-GULF OXY U3
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23233	103.1255	TOLK STATION EAST - TUCCO INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	103.124	GEN547649 1-ASBURY UNIT #1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23303	103.123	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23331	103.1222	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1211	GEN337008 1-DUKE MCADAMS S1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1183	GEN334392 1-EXXON MOBIL IPP 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23466	103.117	LATHAM57 345.00 - ROSE HILL 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23365	103.1158	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1142	GEN337421 1-OUCHITA CTG1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1142	GEN337423 1-OUCHITA CTG2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	103.1142	GEN337425 1-OUCHITA CTG3

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.1118	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.1118	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23174	103.1101	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.1097	GEN515000 1-MCCLAIN UNIT 3
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.1074	GEN506752 1-LEBROCK GAS 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.1061	GEN335075 1-DYNEGY#1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.1054	GEN514912 2-REDDUB GEN
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.0944	GEN547649 1-ASBURY UNIT #1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23335	103.0943	AMARILLO SOUTH INTERCHANGE - G07-48T 230.00 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23303	103.0943	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23331	103.093	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23233	103.0905	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.087	GEN515443 1-MNCOWND1 34.500
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23365	103.0869	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.0825	GEN515000 1-MCCLAIN UNIT 3
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23174	103.0823	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.0818	GEN338500 1-MCCLELLAN UNIT #1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23365	103.065	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.0622	GEN511836 1-NORTHEASTERN STATION #1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.0597	GEN515443 1-MNCOWND1 34.500
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23296	103.0575	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.0534	GEN338500 1-MCCLELLAN UNIT #1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23334	103.0505	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.0503	GEN549890 1-SOUTHWEST 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23312	103.0371	SHAMROCK - WELLINGTON 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23365	103.0357	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23288	103.0351	CONWAY SUB - YARNELL SUB 115KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23382	103.0343	KNOBHILL - SALINE 69KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.0336	GEN511836 1-NORTHEASTERN STATION #1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23303	103.0334	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23272	103.03	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23312	103.0284	SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23295	103.0278	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23296	103.0268	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23288	103.0244	NICHOLS STATION - YARNELL SUB 115KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23334	103.0206	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	103.0206	GEN549890 1-SOUTHWEST 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.0199	GEN300031 1-CHOUTEAU CTG 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.0199	GEN300032 1-CHOUTEAU CTG 2
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.0172	GEN520812 1-ANADRK5
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.0171	GEN520813 1-ANADRK6
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23307	103.0154	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23401	103.0117	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23355	103.0117	OGE3TERM10
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23382	103.0068	KNOBHILL - SALINE 69KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23312	103.0066	SHAMROCK - WELLINGTON 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23382	103.0065	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23303	103.0044	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23288	103.0043	CONWAY SUB - YARNELL SUB 115KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23383	103.0033	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.0021	GEN511953 G-COGENTRIX GAS # 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.0015	GEN511954 S-COGENTRIX STEAM # 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23272	103.0014	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	103.0008	GEN337954 1-LYNCH UNIT #3
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23312	102.998	SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23295	102.998	NUNDRWD - WAYSIDE 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23373	102.9952	CLINTON JUNCTION - G07-32T 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23288	102.9933	NICHOLS STATION - YARNELL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23307	102.9914	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9912	GEN300031 1-CHOUTEAU CTG 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9912	GEN300032 1-CHOUTEAU CTG 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9893	GEN520812 1-ANADRK5
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9892	GEN520813 1-ANADRK6
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9858	GEN547656 1-STATE LINE UNIT #2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9847	GEN511851 1-COMANCHE #1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23303	102.9839	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23355	102.9823	OGE3TERM10
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23401	102.9816	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23303	102.9797	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23382	102.9787	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23383	102.9749	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9736	GEN511953 G-COGENTRIX GAS # 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.973	GEN511954 S-COGENTRIX STEAM # 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9721	GEN337954 1-LYNCH UNIT #3
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9717	GEN511938 1-OEC STEAM # 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23373	102.9665	CLINTON JUNCTION - G07-32T 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23344	102.9661	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9658	GEN335201 1-NELSON UNIT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23288	102.9598	SPP-SWPS-T53
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9572	GEN511851 1-COMANCHE #1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9563	GEN547656 1-STATE LINE UNIT #2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23379	102.9544	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23283	102.9541	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23288	102.9512	CONWAY SUB - KIRBY SWITCHING STATION 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23303	102.9508	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23303	102.9507	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23303	102.9501	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9479	GEN509408 1-WILKES #2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23312	102.9462	HOLLIS TAP - WELLINGTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23307	102.9446	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9431	GEN511938 1-OEC STEAM # 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9394	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9378	GEN338513 1-BAILEY UNIT #1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23334	102.9376	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9371	GEN335201 1-NELSON UNIT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23344	102.9363	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23340	102.9358	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23312	102.9348	CHILDRESS - HOLLIS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23270	102.934	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9299	GEN503900 1-FITZHUGH CT1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23288	102.928	SPP-SWPS-T53
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23379	102.9273	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23283	102.927	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23382	102.926	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9252	GEN338510 1-151KNWRI
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23303	102.9211	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23307	102.9203	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23288	102.9195	CONWAY SUB - KIRBY SWITCHING STATION 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9194	GEN509408 1-WILKES #2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23350	102.9191	OKEENE - WATONGA SW 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23312	102.9157	HOLLIS TAP - WELLINGTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9151	GEN501910 1-ACADIA UNIT ST1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9139	GEN549893 2-SOUTHWEST 2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9137	GEN335202 1-NELSON UNIT 2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23336	102.9114	PUTNAM - TALOGA 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9106	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.909	GEN521129 1-BLUCANS 4 138.00
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9088	GEN338513 1-BAILEY UNIT #1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9087	GEN506749 1-EASTMAN GENERATION A
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23333	102.9081	MCCOOL - MOORE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.9063	GEN560169 1-G08-13 0.5750
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23340	102.9058	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23270	102.9058	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23382	102.9053	GOLTRY - IMO 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23328	102.9044	JENSEN ROAD - JENSEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23312	102.9044	CHILDRESS - HOLLIS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23334	102.9043	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.9011	GEN503900 1-FITZHUGH CT1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23313	102.8983	RED WILLOW (R.WIL T1) 345/115/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23382	102.8974	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.8963	GEN338510 1-151KNWRI
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23350	102.8911	OKEENE - WATONGA SW 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23288	102.8901	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23336	102.8875	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23336	102.887	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.8862	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23305	102.886	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.8859	GEN501910 1-ACADIA UNIT ST1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.8848	GEN335202 1-NELSON UNIT 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.8846	GEN549893 2-SOUTHWEST 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23336	102.8834	PUTNAM - TALOGA 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.8807	GEN521129 1-BLUCANS 4 138.00
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23973	102.8799	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.8798	GEN506749 1-EASTMAN GENERATION A
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23336	102.8785	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.8785	GEN337422 1-OUCHITA STG1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.8785	GEN337424 1-OUCHITA STG2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.8785	GEN337426 1-OUCHITA STG3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23333	102.8782	MCCOOL - MOORE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.8781	GEN560169 1-G08-13 0.5750
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23279	102.8779	CLARENDON - JERICHO 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23382	102.8764	GOLTRY - IMO 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23279	102.876	JERICHO - KIRBY SWITCHING STATION 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23279	102.875	JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23328	102.8747	JENSEN ROAD - JENSEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23313	102.8685	RED WILLOW (R.WIL T1) 345/115/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23453	102.864	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23276	102.8614	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23353	102.8611	CIMARRON - EL RENO 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.8603	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23336	102.8594	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23288	102.8592	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23336	102.8589	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23283	102.8585	STEGALL - WAYSIDE 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23305	102.8579	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.8579	GEN335545 1-DOW AEP UNITS
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.8572	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23305	102.8547	OVERTON-TRF

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23325	102.8517	MARSHALL - WOODRING 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.8511	GEN520811 1-ANADRK4
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23336	102.851	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.8495	GEN337422 1-OUCHITA STG1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.8495	GEN337424 1-OUCHITA STG2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.8495	GEN337426 1-OUCHITA STG3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23279	102.8481	CLARENDON - JERICHO 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23279	102.8462	JERICHO - KIRBY SWITCHING STATION 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23279	102.8453	JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23325	102.8447	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.8443	GEN337124 5-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23336	102.844	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.8421	GEN335137 C4-PPG
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23290	102.8402	BROOKLINE - MORGAN 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.8378	GEN300003 1-THOMAS HILL UNIT 3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23453	102.8361	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23320	102.8324	CANTON - TALOGA 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23276	102.8322	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23353	102.8321	CIMARRON - EL RENO 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.8313	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.8294	GEN300016 1-1G1GPDEL 18.000
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.8294	GEN300017 1-1G2GPDEL 18.000
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23283	102.8287	STEGALL - WAYSIDE 230KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.8286	GEN335545 1-DOW AEP UNITS
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23305	102.8264	OVERTON-TRF
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.8255	GEN511852 1-COMANCHE #2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23325	102.8239	MARSHALL - WOODRING 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.8226	GEN520811 1-ANADRK4
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23325	102.8168	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23336	102.8163	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.8152	GEN337124 5-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.8131	GEN511853 1-COMANCHE #3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.813	GEN335137 C4-PPG
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23290	102.8118	BROOKLINE - MORGAN 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23283	102.8114	OGE3TERM2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.8112	GEN334467 1-DUPONT UNIT#1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23281	102.8096	MORRISON - STILLWATER 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.8095	GEN500915 3-WESTERN KRAFT
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23278	102.8069	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.8068	GEN300003 1-THOMAS HILL UNIT 3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23319	102.8035	CANTON - TALOGA 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23320	102.8034	CANTON - OKEENE 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23286	102.8034	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23326	102.8005	WRTOD1104
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.8001	GEN300016 1-1G1GPDEL 18.000
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.8001	GEN300017 1-1G2GPDEL 18.000
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.7971	GEN511852 1-COMANCHE #2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.7948	GEN334335 1-TOLEDO BEND
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.7925	GEN334232 1-PELCNRD U1 13.800
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.7925	GEN334233 1-PELCNRD U2 13.800
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.7847	GEN511853 1-COMANCHE #3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23283	102.7846	OGE3TERM2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23281	102.7827	MORRISON - STILLWATER 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23270	102.7827	CLINTON - MONTROSE 161KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.7821	GEN334467 1-DUPONT UNIT#1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.781	GEN335546 3-DOW COGEN

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.7804	GEN500915 3-WESTERN KRAFT
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23278	102.7782	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.777	GEN334298 1-CYPR U1 13.800
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.777	GEN334299 1-CYPR U2 13.800
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23362	102.7766	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23271	102.7752	KCPL-OPGD06A
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23286	102.7747	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23319	102.7745	CANTON - OKEENE 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23326	102.772	WRTOD1104
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23345	102.7685	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23277	102.7676	ELK CITY (ELKCTY-4) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23271	102.7674	KCPL-OPGD01A
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.7656	GEN334335 1-TOLEDO BEND
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23302	102.7654	DBL-SPRVL-CO
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.7633	GEN334232 1-PELCNRD U1 13.800
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.7633	GEN334233 1-PELCNRD U2 13.800
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.7601	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.7601	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23006	102.7599	SOONER - SPRING CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23275	102.7551	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23270	102.7541	CLINTON - MONTROSE 161KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.7518	GEN335546 3-DOW COGEN
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.7495	GEN560118 1-G08-46 0.6900
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.7478	GEN334298 1-CYPR U1 13.800
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.7478	GEN334299 1-CYPR U2 13.800
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23362	102.747	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23271	102.7459	KCPL-OPGD06A
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.7452	GEN335644 1-EXXON UNITS
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23271	102.7447	HAWTHORN - NASHUA 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23345	102.7419	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23271	102.738	KCPL-OPGD01A
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23277	102.7375	ELK CITY (ELKCTY-4) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.7368	GEN506753 1-LEBROCK GAS 2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23298	102.7352	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23234	102.7347	NORTHEAST STATION - TULSA NORTH 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.7306	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.7306	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23298	102.7288	NINNES3 115.00 - PRATT 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23275	102.726	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23279	102.7233	A143
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23276	102.7229	MCELROY - STILLWATER 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.7208	GEN560118 1-G08-46 0.6900
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23332	102.7191	CALUMET - WATONGA SW 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23271	102.7152	HAWTHORN - NASHUA 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23279	102.7109	7LUTESVIL 345.00 - 7ST FRAN 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23288	102.7095	EVANS ENERGY CENTER NORTH - MAIZE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23298	102.7071	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23234	102.7057	NORTHEAST STATION - TULSA NORTH 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23298	102.7031	NINNES3 115.00 - ST JOHN 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23298	102.7003	NINNES3 115.00 - PRATT 115KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23302	102.6982	DBL-SPRVL-CO
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23332	102.6902	CALUMET - WATONGA SW 69KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.6664	GEN599891 1-OKLAUN
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.4335	BASE CASE
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23264	102.4033	BASE CASE
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23264	102.2627	GEN515389 1-TLGAWND1 34.500

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23287	102.1715	GRAY CO 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.1591	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.1542	GEN560140 1-G09-08 0.7000
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.1541	GEN539630 1-FLATRDG1 34.500
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.1526	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23258	102.1465	MAYFLOWER 500 - PLEASANT HILL 500KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.1381	GEN560235 1-G08-92 0.6900
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.1367	GEN530639 01-HYSWNDG1 0.6900
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23267	102.1363	BAXTER WILSON SES - RAY BRASWELL SES 500KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.1256	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.124	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.1225	GEN539630 1-FLATRDG1 34.500
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23287	102.1209	GRAY CO 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.1199	GEN641089 2-ENERGY CENTER 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.1186	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.1154	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23256	102.1152	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.1128	GEN560694 1-G11-008-2 0.6900
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.1108	GEN560695 1-G11-008-3 0.6900
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.11	GEN560386 1-G10-029-1 0.6900
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.11	GEN560387 1-G10-029-2 0.6900
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.11	GEN560388 1-G10-029-3 0.6900
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.107	GEN560235 1-G08-92 0.6900
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.1054	GEN530639 01-HYSWNDG1 0.6900
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23267	102.1049	BAXTER WILSON SES - RAY BRASWELL SES 500KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.1043	GEN560514 1-G04_014 0.6900
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.1034	GEN560606 1-G07-11 0.5750
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0885	GEN641089 2-ENERGY CENTER 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0882	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23204	102.0879	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23204	102.0847	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23256	102.0839	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23265	102.0832	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.082	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23097	102.0817	SOONER - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0814	GEN560694 1-G11-008-2 0.6900
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0805	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.0797	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0794	GEN560695 1-G11-008-3 0.6900
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0787	GEN560386 1-G10-029-1 0.6900
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0787	GEN560387 1-G10-029-2 0.6900
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0787	GEN560388 1-G10-029-3 0.6900
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.0775	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.075	GEN515790 1-FPLWND2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0732	GEN560606 1-G07-11 0.5750
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.073	GEN560514 1-G04_014 0.6900
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.0694	GEN520922 1-SLEEPING 138.00
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23295	102.0667	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	02ALL		2 11G	G11_014	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23269	102.0653	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23204	102.0571	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23097	102.0551	SOONER - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23204	102.054	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23265	102.0517	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0461	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.043	GEN515790 1-FPLWND2
FDNS	02ALL		2 11G	G11_014	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0423	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME				RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0415	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.0396	GEN531486 1-CNTRPL2 34.500
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23386	102.0385	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0377	GEN520922 1-SLEEPING 138.00
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23295	102.0348	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23269	102.0336	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.0289	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23310	102.0252	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.0239	GEN522814 1-LUBBOCK POWER & LIGHT-MACKENZIE GEN
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.0223	GEN524895 1-SAN JUAN MESA WIND GEN
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23278	102.0219	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.0185	CENTER GEN TRANS 4 - SQUARE BUTTE 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.0107	GEN560238 1-G10-09 0.6900
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23252	102.01	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23252	102.0096	A112
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	102.0081	GEN531486 1-CNTRPL2 34.500
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23311	102.0072	OGE3TERM7
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.006	GEN560356 1-G10-53 0.6900
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	102.0058	GEN560693 1-G11-008-1 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23386	102.0046	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23252	101.9996	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23243	101.9987	NORTHWEST (NORTW3T3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.9974	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.9969	GEN515397 1-OUSPR1 34.500
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.9954	GEN560432 1-G08-124 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.9944	GEN522814 1-LUBBOCK POWER & LIGHT-MACKENZIE GEN
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23310	101.9932	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.993	GEN524895 1-SAN JUAN MESA WIND GEN
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.9929	GEN560659 1-G07-38 0.6900
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23342	101.9908	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23278	101.9892	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.9876	CENTER GEN TRANS 4 - SQUARE BUTTE 230KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23257	101.9859	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.9833	GEN562035 1-G11-016 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.9796	GEN560238 1-G10-09 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23252	101.9781	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23252	101.9777	A112
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23311	101.9751	OGE3TERM7
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.9742	GEN560356 1-G10-53 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.9739	GEN560693 1-G11-008-1 0.6900
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.9706	GEN560549 1-G06-06 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23252	101.9676	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23243	101.9661	NORTHWEST (NORTW3T3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23167	101.9658	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.9643	GEN515397 1-OUSPR1 34.500
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.9636	GEN560432 1-G08-124 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.9612	GEN560659 1-G07-38 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23342	101.9591	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23250	101.9569	CIMARRON (CIMARON2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23257	101.9541	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23310	101.9537	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23310	101.9531	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.22889	101.9524	MATTHEWSON 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.9516	GEN562035 1-G11-016 0.6900
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23310	101.951	SPP-WERE-41B
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.9421	GEN523277 1-VALERO SUB

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23250	101.9403	CIMARRON (CIMARON1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.9392	GEN560549 1-G06-06 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23167	101.9339	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22889	101.9326	MATTHEWSON 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23250	101.9244	CIMARRON (CIMARON2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23310	101.9212	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23310	101.9207	NEWKIRKA - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.9185	GEN560209 1-G07-40 0.5750
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23310	101.9183	SPP-WERE-41B
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23275	101.916	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.9133	GEN523277 1-VALERO SUB
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23275	101.9099	AMRN_OUT55
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23250	101.9077	CIMARRON (CIMARON1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.9037	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.9031	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.8971	GEN560329 1-G10-45 0.6900
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23241	101.8923	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.8918	GEN562032 1-G11-017 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.8873	GEN560209 1-G07-40 0.5750
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23311	101.8861	SPP-WERE-07B
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.8857	GEN560522 1-G05-12 0.6900
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.8849	GEN515364 1-CENT 11 0.6000
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23275	101.8839	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.8795	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23275	101.8777	AMRN_OUT55
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.8743	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23237	101.8739	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.8737	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.8664	GEN560329 1-G10-45 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.86	GEN562032 1-G11-017 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23241	101.8589	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.854	GEN560522 1-G05-12 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23311	101.8529	SPP-WERE-07B
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.8512	GEN515364 1-CENT 11 0.6000
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.8505	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.8464	GEN524285 1-WILDORADO WIND GEN
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23237	101.8418	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.8371	GEN560170 1-G08-16 34.500
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.8302	GEN560595 1-G06-47 0.6000
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.8294	GEN560592 1-G06-45 0.6000
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23152	101.8258	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.8257	GEN515393 1-OGEWND2G
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.8179	GEN524285 1-WILDORADO WIND GEN
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.8079	GEN560170 1-G08-16 34.500
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.8014	GEN560595 1-G06-47 0.6000
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23274	101.8009	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.8005	GEN560592 1-G06-45 0.6000
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23152	101.7959	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.7928	GEN539677 3-A. M. MULLERGREN GENERATOR
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.7903	GEN515393 1-OGEWND2G
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.7774	GEN560180 1-G07-51 0.6000
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.776	GEN562014 1-G11-023 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23274	101.7683	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.7651	GEN560173 1-G08-17 0.5750
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.7599	GEN539677 3-A. M. MULLERGREN GENERATOR
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.7438	GEN562014 1-G11-023 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME		
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.7419	GEN560180 1-G07-51 0.6000
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.7342	GEN560173 1-G08-17 0.5750
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.7231	GEN560105 1-G08-22 0.6900
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.7141	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23277	101.6993	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.6942	GEN560105 1-G08-22 0.6900
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23244	101.6921	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23044	101.6871	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.6842	GEN531459 2-52 GENERATOR
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.6834	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.6826	GEN560273 1-ASGI-10-11 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23277	101.6663	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23244	101.6584	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.6561	GEN560353 1-G10-52 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.6547	GEN560273 1-ASGI-10-11 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.6542	GEN531459 2-52 GENERATOR
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23044	101.654	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.6252	GEN560353 1-G10-52 0.6900
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.5531	GEN560221 1-G07-62-1 0.6900
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.5531	GEN560222 1-G07-62-2 0.6900
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.5531	GEN560223 1-G07-62-3 0.6900
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.5531	GEN560224 1-G07-62-4 0.6900
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23344	101.5383	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.5212	GEN560359 1-G08-51 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.5157	GEN560221 1-G07-62-1 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.5157	GEN560222 1-G07-62-2 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.5157	GEN560223 1-G07-62-3 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.5157	GEN560224 1-G07-62-4 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23344	101.5039	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.4981	GEN560584 1-G06-44-1 0.6000
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.4935	GEN560359 1-G08-51 0.6900
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.4722	GEN560187 1-G10-07 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.4705	GEN560584 1-G06-44-1 0.6000
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.4664	GEN520997 1-MORIND2
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23129	101.4651	CLEVELAND - SOONER 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.454	GEN523926 1-MAJESTC_WND3115.00
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.4451	GEN560187 1-G10-07 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23129	101.4368	CLEVELAND - SOONER 345KV CKT 1
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.4334	GEN560166 1-G07-48 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.4268	GEN523926 1-MAJESTC_WND3115.00
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.426	GEN560570 1-G06-39 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.4234	GEN520997 1-MORIND2
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.4056	GEN560166 1-G07-48 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.3983	GEN560570 1-G06-39 0.6900
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.3962	GEN560279 1-G08-18 0.6900
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.3775	GEN560429 1-G08-29 0.6400
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.365	GEN560279 1-G08-18 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.3408	GEN560429 1-G08-29 0.6400
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.2219	GEN523195 1-Hansford County Switch Station
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.2152	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.2152	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.2132	GEN562023 1-G11-020 0.6900
FDNS	02ALL		2	11G	G11_014	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00 345KV CKT 1	1195	0.23264	101.2132	GEN562026 1-G11-019 0.6900
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.1954	GEN523195 1-Hansford County Switch Station
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.1887	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL		2	11G	G11_014	FROM->TO	G11-015T	345.00	- TATONGA7	345.00 345KV CKT 1	1195	0.23264	101.1887	GEN523462 1-BLACKHAWK GEN #2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.1876	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.173	GEN560539 1-G05-17-2 34.500
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.1654	GEN562023 1-G11-020 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.1654	GEN562026 1-G11-019 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.1545	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.1466	GEN560539 1-G05-17-2 34.500
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23856	101.1226	G11-021T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23856	101.0897	G11-021T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.0409	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22998	101.032	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	101.0308	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	101.0081	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	100.9975	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22998	100.9958	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22785	100.9619	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	100.9589	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	100.9588	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	100.9567	GEN527165 1-Mustang Gen #5
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	100.9548	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22926	100.9439	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22785	100.9363	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	100.9314	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	100.9314	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	100.9293	GEN527165 1-Mustang Gen #5
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	100.9273	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22926	100.9074	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	100.8758	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	100.8665	GEN562049 1-G11-012 0.6900
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	100.8485	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	100.8413	GEN562049 1-G11-012 0.6900
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23973	100.7937	G05-17T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23973	100.7594	G05-17T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23040	100.7257	BORDER 7345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23857	100.714	2008-047T 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	100.7064	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	100.7064	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	100.6794	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	100.6794	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23857	100.6708	2008-047T 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23040	100.6673	BORDER 7345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22933	100.565	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22933	100.5338	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	100.392	GEN560536 1-G05-17-1 34.500
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	100.392	GEN560540 1-G05-17-3 34.500
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	100.3669	GEN560536 1-G05-17-1 34.500
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	100.3669	GEN560540 1-G05-17-3 34.500
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23856	100.2658	2008-047T 345.00 - G11-021T 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	100.2378	GEN560585 1-G06-44-2 0.6000
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	100.2135	GEN560585 1-G06-44-2 0.6000
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23856	100.2109	2008-047T 345.00 - G11-021T 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23264	100	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23264	100	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02G11_014	0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23734	118.0593	DBL-MEDLO-WI
FDNS	02G11_014	0	11G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23961	106.8519	DBL-WOOD-MED
FDNS	02G11_014	0	11G	G11_014	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.36321	100.9938	DBL-G0847-WO
FDNS	02G11_014	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29514	122.3018	DBL-MEDLO-WI

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02G11_014	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29514	122.3018	DBL-MEDLO-WI
FDNS	02G11_014	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29568	108.5658	DBL-WOOD-MED
FDNS	02G11_014	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29568	108.5658	DBL-WOOD-MED
FDNS	02G11_014	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.24658	106.0185	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02G11_014	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.24658	106.0179	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02G11_014	2	11G	G11_014	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.36271	100.9352	DBL-G0847-WO
FDNS	02G11_014	3	11G	G11_014	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.36283	101.0325	DBL-G0847-WO
FDNS	03ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.24124	103.615	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.24124	103.615	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.24124	103.6141	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.24124	103.6141	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	11G	G11_014	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23617	100.3479	MINGO - SETAB 345KV CKT 1
FDNS	03ALL	2	11G	G11_014	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23617	100.3311	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	3	0	11G	G11_016		Non Converged Contingency	0	0.39239	-	DBL-COM-MEDL
FNSL-Blown up	3	0	11G	G11_016		Non Converged Contingency	0	0.27432	-	DBL-MEDLO-WI
FNSL-Blown up	3	2	11G	G11_016		Non Converged Contingency	0	0.39217	-	DBL-COM-MEDL
FNSL-Blown up	3	2	11G	G11_016		Non Converged Contingency	0	0.26382	-	DBL-MEDLO-WI
FNSL-Blown up	3	3	11G	G11_016		Non Converged Contingency	0	0.39227	-	DBL-COM-MEDL
FNSL-Blown up	3	3	11G	G11_016		Non Converged Contingency	0	0.26366	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G11_016		Non Converged Contingency	1195	0.11824	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_016		Non Converged Contingency	1195	0.11824	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_016		Non Converged Contingency	1195	0.11824	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_016		Non Converged Contingency	0	0.27584	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	G11_016		Non Converged Contingency	0	0.27051	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	G11_016		Non Converged Contingency	0	0.09302	-	DBL-G0847-WO
FNSL-Blown up	02ALL	2	11G	G11_016		Non Converged Contingency	0	0.09944	-	DBL-G0847-WO
FNSL-Blown up	02ALL	3	11G	G11_016		Non Converged Contingency	0	0.09989	-	DBL-G0847-WO
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	1195	0.10307	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	1195	0.10307	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	1195	0.10307	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	1052	0.08092	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	1792	0.15206	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	1328	0.04356	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	1195	0.13994	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	1195	0.13994	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	1792	0.13947	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	0	0.33096	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	0	0.33096	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	0	0.21171	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	0	0.07744	-	DBL-G0847-WO
FNSL-Blown up	03ALL	0	11G	G11_016		Non Converged Contingency	0	0.11749	-	DBL-WOOD-MED
FNSL-Blown up	03ALL	2	11G	G11_016		Non Converged Contingency	1195	0.12779	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_016		Non Converged Contingency	1052	0.08248	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_016		Non Converged Contingency	1195	0.13841	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_016		Non Converged Contingency	1792	0.16573	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_016		Non Converged Contingency	1792	0.16573	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 2
FNSL-Blown up	03ALL	2	11G	G11_016		Non Converged Contingency	0	0.33146	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	2	11G	G11_016		Non Converged Contingency	0	0.33146	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	2	11G	G11_016		Non Converged Contingency	0	0.20311	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G11_016		Non Converged Contingency	1792	0.12935	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_016		Non Converged Contingency	1195	0.13840	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_016		Non Converged Contingency	1195	0.13840	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_016		Non Converged Contingency	0	0.33158	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	3	11G	G11_016		Non Converged Contingency	0	0.33158	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	3	11G	G11_016		Non Converged Contingency	0	0.20299	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G11_016		Non Converged Contingency	0	0.08384	-	DBL-G0847-WO

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	1792	0.12920	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	1792	0.12920	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	1052	0.08212	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	1052	0.08212	-	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	398	0.04385	-	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	1792	0.14955	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	1195	0.13768	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	1195	0.13768	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	1792	0.10086	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	1792	0.10086	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	319	0.03931	-	CIRCLE - MULLERGREN 230KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	1792	0.14210	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	1195	0.13768	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	956	0.03646	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	1792	0.16518	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	1792	0.16518	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 2	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	0	0.33035	-	DBL-COM-MEDL	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	0	0.20171	-	DBL-MEDLO-WI	
FNSL-Blown up	03ALL		4	11G	G11_016	Non Converged Contingency	0	0.12741	-	DBL-WOOD-MED	
FNSL-Blown up	03G11_016		0	11G	G11_016	Non Converged Contingency	0	0.39178	-	DBL-COM-MEDL	
FNSL-Blown up	03G11_016		0	11G	G11_016	Non Converged Contingency	0	0.27343	-	DBL-MEDLO-WI	
FNSL-Blown up	03G11_016		2	11G	G11_016	Non Converged Contingency	0	0.39157	-	DBL-COM-MEDL	
FNSL-Blown up	03G11_016		2	11G	G11_016	Non Converged Contingency	0	0.26297	-	DBL-MEDLO-WI	
FNSL-Blown up	03G11_016		3	11G	G11_016	Non Converged Contingency	0	0.39168	-	DBL-COM-MEDL	
FNSL-Blown up	03G11_016		3	11G	G11_016	Non Converged Contingency	0	0.26283	-	DBL-MEDLO-WI	
FNSL-Blown up	03G11_016		4	11G	G11_016	Non Converged Contingency	0	0.33287	-	DBL-COM-MEDL	
FDNS	2		2	11G	G11_016	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21567	121.0025	DBL-MEDLO-WI
FDNS	2		2	11G	G11_016	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21567	121.0023	DBL-MEDLO-WI
FDNS	02ALL		2	11G	G11_016	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21377	144.3307	DBL-MEDLO-WI
FDNS	02ALL		2	11G	G11_016	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21377	144.3306	DBL-MEDLO-WI
FNSL-Blown up	0		0	16SP	G11_017	Non Converged Contingency	0	0.03101	-	TRF-STEGALL	
FNSL-Blown up	0		0	16WP	G11_017	Non Converged Contingency	0	0.03065	-	TRF-STEGALL	
FNSL-Blown up	3		0	11G	G11_017	Non Converged Contingency	0	0.31279	-	DBL-COM-MEDL	
FNSL-Blown up	3		0	11G	G11_017	Non Converged Contingency	0	0.20868	-	DBL-MEDLO-WI	
FNSL-Blown up	3		2	11G	G11_017	Non Converged Contingency	0	0.31262	-	DBL-COM-MEDL	
FNSL-Blown up	3		2	11G	G11_017	Non Converged Contingency	0	0.19978	-	DBL-MEDLO-WI	
FNSL-Blown up	3		3	11G	G11_017	Non Converged Contingency	0	0.31271	-	DBL-COM-MEDL	
FNSL-Blown up	3		3	11G	G11_017	Non Converged Contingency	0	0.19963	-	DBL-MEDLO-WI	
FNSL-Blown up	00G11_017		0	16SP	G11_017	Non Converged Contingency	0	0.03103	-	TRF-STEGALL	
FNSL-Blown up	00G11_017		0	16WP	G11_017	Non Converged Contingency	0	0.03064	-	TRF-STEGALL	
FNSL-Blown up	01ALL		0	11G	G11_017	Non Converged Contingency	1195	0.10321	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FNSL-Blown up	01ALL		0	11G	G11_017	Non Converged Contingency	1195	0.10321	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	
FNSL-Blown up	01ALL		0	11G	G11_017	Non Converged Contingency	1195	0.10321	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	
FNSL-Blown up	01ALL		0	11G	G11_017	Non Converged Contingency	0	0.21022	-	DBL-MEDLO-WI	
FNSL-Blown up	02ALL		0	11G	G11_017	Non Converged Contingency	0	0.20489	-	DBL-MEDLO-WI	
FNSL-Blown up	02ALL		0	11G	G11_017	Non Converged Contingency	0	0.07622	-	DBL-G0847-WO	
FNSL-Blown up	02ALL		2	11G	G11_017	Non Converged Contingency	0	0.08168	-	DBL-G0847-WO	
FNSL-Blown up	02ALL		3	11G	G11_017	Non Converged Contingency	0	0.08211	-	DBL-G0847-WO	
FNSL-Blown up	03ALL		0	11G	G11_017	Non Converged Contingency	1195	0.09065	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		0	11G	G11_017	Non Converged Contingency	1195	0.09065	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		0	11G	G11_017	Non Converged Contingency	1195	0.09065	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		0	11G	G11_017	Non Converged Contingency	1052	0.07883	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		0	11G	G11_017	Non Converged Contingency	1792	0.36637	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1	
FNSL-Blown up	03ALL		0	11G	G11_017	Non Converged Contingency	1195	0.10281	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1	
FNSL-Blown up	03ALL		0	11G	G11_017	Non Converged Contingency	1195	0.10281	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1	
FNSL-Blown up	03ALL		0	11G	G11_017	Non Converged Contingency	1792	0.12259	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	03ALL		0 11G	G11_017		Non Converged Contingency	0	0.26726	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		0 11G	G11_017		Non Converged Contingency	0	0.26726	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		0 11G	G11_017		Non Converged Contingency	0	0.16209	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		0 11G	G11_017		Non Converged Contingency	0	0.06510	-	DBL-G0847-WO
FNSL-Blown up	03ALL		0 11G	G11_017		Non Converged Contingency	0	0.11039	-	DBL-WOOD-MED
FNSL-Blown up	03ALL		2 11G	G11_017		Non Converged Contingency	1195	0.11202	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_017		Non Converged Contingency	1052	0.08018	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_017		Non Converged Contingency	1195	0.10150	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_017		Non Converged Contingency	1792	0.13385	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_017		Non Converged Contingency	1792	0.13385	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 2
FNSL-Blown up	03ALL		2 11G	G11_017		Non Converged Contingency	0	0.26770	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		2 11G	G11_017		Non Converged Contingency	0	0.26770	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		2 11G	G11_017		Non Converged Contingency	0	0.15468	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	G11_017		Non Converged Contingency	1792	0.11349	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_017		Non Converged Contingency	1195	0.10149	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_017		Non Converged Contingency	1195	0.10149	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_017		Non Converged Contingency	0	0.26782	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		3 11G	G11_017		Non Converged Contingency	0	0.26782	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		3 11G	G11_017		Non Converged Contingency	0	0.15457	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	G11_017		Non Converged Contingency	0	0.07067	-	DBL-G0847-WO
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	1792	0.11333	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	1792	0.11333	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	1052	0.07983	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	1052	0.07983	-	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	398	0.10560	-	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	1792	0.36405	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	1195	0.10077	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	1195	0.10077	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	1792	0.07665	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	1792	0.07665	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	319	0.05237	-	CIRCLE - MULLERGREEN 230KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	1792	0.12481	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	1195	0.10077	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	1792	0.13330	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	1792	0.13330	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 2
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	0	0.26659	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	0	0.15329	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		4 11G	G11_017		Non Converged Contingency	0	0.11894	-	DBL-WOOD-MED
FNSL-Blown up	03G11_017		0 11G	G11_017		Non Converged Contingency	0	0.31273	-	DBL-COM-MEDL
FNSL-Blown up	03G11_017		0 11G	G11_017		Non Converged Contingency	0	0.20857	-	DBL-MEDLO-WI
FNSL-Blown up	03G11_017		2 11G	G11_017		Non Converged Contingency	0	0.31256	-	DBL-COM-MEDL
FNSL-Blown up	03G11_017		2 11G	G11_017		Non Converged Contingency	0	0.19967	-	DBL-MEDLO-WI
FNSL-Blown up	03G11_017		3 11G	G11_017		Non Converged Contingency	0	0.31265	-	DBL-COM-MEDL
FNSL-Blown up	03G11_017		3 11G	G11_017		Non Converged Contingency	0	0.19952	-	DBL-MEDLO-WI
FNSL-Blown up	3		0 11G	G11_018		Non Converged Contingency	0	0.04676	-	Non Converged Contingency
FNSL-Blown up	3		2 11G	G11_018		Non Converged Contingency	0	0.04681	-	Non Converged Contingency
FNSL-Blown up	3		3 11G	G11_018		Non Converged Contingency	0	0.04687	-	Non Converged Contingency
FNSL-Blown up	01ALL		0 11G	G11_018		Non Converged Contingency	1195	0.03732	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	G11_018		Non Converged Contingency	1195	0.03732	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	G11_018		Non Converged Contingency	1195	0.03732	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_018		Non Converged Contingency	1195	0.03239	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_018		Non Converged Contingency	1195	0.03239	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_018		Non Converged Contingency	1195	0.03239	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_018		Non Converged Contingency	1052	0.05508	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_018		Non Converged Contingency	1792	0.05480	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_018		Non Converged Contingency	0	0.04742	-	DBL-SPRVL-CO

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	03ALL		0 11G	G11_018		Non Converged Contingency	0	0.04742	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		0 11G	G11_018		Non Converged Contingency	0	0.07897	-	DBL-WOOD-MED
FNSL-Blown up	03ALL		2 11G	G11_018		Non Converged Contingency	1195	0.03852	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_018		Non Converged Contingency	1052	0.05548	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_018		Non Converged Contingency	0	0.04764	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		2 11G	G11_018		Non Converged Contingency	0	0.04764	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		3 11G	G11_018		Non Converged Contingency	1792	0.03947	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_018		Non Converged Contingency	0	0.04772	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		3 11G	G11_018		Non Converged Contingency	0	0.04772	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		4 11G	G11_018		Non Converged Contingency	1792	0.03928	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_018		Non Converged Contingency	1792	0.03928	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_018		Non Converged Contingency	1052	0.05515	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_018		Non Converged Contingency	1052	0.05515	-	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_018		Non Converged Contingency	1792	0.05514	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_018		Non Converged Contingency	0	0.04647	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		4 11G	G11_018		Non Converged Contingency	0	0.08128	-	DBL-WOOD-MED
FDNS	13_BPSON		0 11G	G11_018	FROM->TO	BEATRICE POWER STATION - CLATONIA 115KV CKT 1	137	0.30035	96.2	BEATRICE POWER STATION - SHELDON 115KV CKT 1
FDNS	13G11_018_BPSON		0 11G	G11_018_BPSON	FROM->TO	BEATRICE POWER STATION - CLATONIA 115KV CKT 1	137	0.30035	99.2	BEATRICE POWER STATION - SHELDON 115KV CKT 1
FDNS	13G11_018_BPSON		0 11G	G11_018_BPSON	FROM->TO	CLATONIA - SHELDON 115KV CKT 1	137	0.30035	95.9	BEATRICE POWER STATION - SHELDON 115KV CKT 1
FNSL-Blown up	3		0 11G	G11_019		Non Converged Contingency	0	0.24413	-	DBL-MEDLO-WI
FNSL-Blown up	3		2 11G	G11_019		Non Converged Contingency	0	0.22121	-	DBL-MEDLO-WI
FNSL-Blown up	3		3 11G	G11_019		Non Converged Contingency	0	0.22099	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL		0 11G	G11_019		Non Converged Contingency	1195	0.22776	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	G11_019		Non Converged Contingency	1195	0.22776	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	G11_019		Non Converged Contingency	1195	0.22776	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	G11_019		Non Converged Contingency	0	0.24559	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL		0 11G	G11_019		Non Converged Contingency	0	0.22309	-	DBL-G0847-WO
FNSL-Blown up	01ALL		0 11G	G11_019		Non Converged Contingency	0	0.30084	-	DBL-WOOD-MED
FNSL-Blown up	02ALL		0 11G	G11_019		Non Converged Contingency	0	0.24026	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		0 11G	G11_019		Non Converged Contingency	1195	0.21982	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_019		Non Converged Contingency	1195	0.21982	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_019		Non Converged Contingency	1195	0.21982	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_019		Non Converged Contingency	1792	0.05687	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_019		Non Converged Contingency	1328	0.04744	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_019		Non Converged Contingency	1195	0.03899	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_019		Non Converged Contingency	1195	0.03899	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_019		Non Converged Contingency	0	0.22506	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		2 11G	G11_019		Non Converged Contingency	1195	0.27894	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_019		Non Converged Contingency	1195	0.03526	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_019		Non Converged Contingency	0	0.20412	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	G11_019		Non Converged Contingency	1792	0.28111	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_019		Non Converged Contingency	1195	0.03525	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_019		Non Converged Contingency	1195	0.03525	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_019		Non Converged Contingency	0	0.20394	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		4 11G	G11_019		Non Converged Contingency	1792	0.28094	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_019		Non Converged Contingency	1792	0.28094	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_019		Non Converged Contingency	1792	0.05247	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_019		Non Converged Contingency	1195	0.03452	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_019		Non Converged Contingency	1195	0.03452	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_019		Non Converged Contingency	1792	0.10133	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_019		Non Converged Contingency	1792	0.10133	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL		4 11G	G11_019		Non Converged Contingency	1195	0.03452	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_019		Non Converged Contingency	956	0.03398	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_019		Non Converged Contingency	0	0.20266	-	DBL-MEDLO-WI
FNSL	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	116.0234	GEN336153 1-WATERFORD UNIT#3
FNSL	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	145.8511	GEN336153 1-WATERFORD UNIT#3



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FNSL	01ALL		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22795	137.8051	NEB01WAPAB3
FNSL	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	121.1297	GEN336153 1-WATERFORD UNIT#3
FNSL	02ALL		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22835	118.5073	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FNSL	02ALL		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22835	111.0464	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FNSL	02ALL		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22835	110.2866	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FNSL	02ALL		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22619	103.0766	MINGO - SETAB 345KV CKT 1
FNSL	02ALL		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22687	103.0695	MINGO - RED WILLOW 345KV CKT 1
FNSL	02ALL		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22627	103.0261	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL	02ALL		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22627	102.5595	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FNSL	02ALL		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.0113	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FNSL	02ALL		2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28074	102.7649	DBL-SPRVL-CO
FNSL	02ALL		2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28074	102.6977	DBL-SPRVL-CO
FNSL	03ALL		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21982	100.2765	GEN336153 1-WATERFORD UNIT#3
FNSL	01NR		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	121.3534	GEN336153 1-WATERFORD UNIT#3
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22655	109.116	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22662	108.3567	LACYGNE - STILWELL 345KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22670	108.3809	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22681	110.1708	LACYGNE - NEOSHO 345KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22737	109.34	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	109.6387	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22721	108.5244	BENTON - WOLF CREEK 345KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.28226	138.0853	DBL-MEDLO-WI
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30937	133.7625	DBL-WOOD-MED
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23550	118.5755	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	116.5963	GEN336821 1-GRAND GULF UNIT
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25066	115.8282	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25066	115.8282	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	115.5323	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24013	115.3817	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24013	115.3817	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	115.057	GEN335831 1-RIVERBEND UNIT#1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23510	114.5459	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	114.4333	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	113.659	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	113.4725	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	113.4033	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	113.3457	GEN501801 1-DOLET HILLS UNIT1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	113.3133	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23550	112.9962	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23945	112.92	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.7897	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.6781	GEN514806 1-SOONER UNIT 2
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.6755	GEN337041 1-GERALD ANDRUS
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.6407	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.5888	GEN509403 1-PIRKEY GENERATION
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.572	GEN515226 1-MUSKOGEE 6G
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.5604	GEN501813 1-RODEMACHER UNIT 3
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.3479	GEN514805 1-SOONER UNIT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23550	112.2525	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.2284	GEN336831 1-BAXTER WILSON SES
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.0837	GEN515223 1-MUSKOGEE 4G
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.0833	GEN501812 1-RODEMACHER UNIT 2
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.0414	GEN335206 1-NELSON UNIT 6
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.033	GEN515225 1-MUSKOGEE 5G
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.004	GEN520947 1-HUGO1
FDNS	1		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23510	111.9278	DEWEY - SOUTHARD 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23156	111.8881	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.8328	GEN334440 1-SABINE UNIT 4
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.832	GEN509406 1-WELSH #3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.8319	GEN509405 1-WELSH #2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.8318	GEN509404 1-WELSH #1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.7995	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.71	GEN335204 1-NELSON UNIT 4
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23374	111.6932	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23374	111.6716	IMO TAP - MEN TAP 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23247	111.6251	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.6209	GEN509394 1-FLINT CREEK
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23510	111.6027	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23229	111.5833	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23247	111.5508	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.4576	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23156	111.4231	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.4122	GEN334441 1-SABINE UNIT 5
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.3957	GEN511841 1-NORTHEASTERN STATION #4
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.3673	GEN511840 1-NORTHEASTERN STATION #3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.3416	GEN511839 1-NORTHEASTERN STATION #2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	111.253	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23227	111.1962	MINGO - RED WILLOW 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.1948	GEN512689 1-GRDA1 GSU1 22
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23156	111.1903	MINGO - SETAB 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.0569	GEN512688 2-GRDA1 GSU2 22
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23118	111.0239	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23118	110.9925	CEDARDALE - OKEENE 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.9616	GEN515042 1-SEMINOLE 3G
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.9279	GEN560687 1-G11-007 0.5750
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	110.8109	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23177	110.8108	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	110.8105	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23315	110.7995	BENTON - WICHITA 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23177	110.7991	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.6911	GEN515041 1-SEMINOLE 2G
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.6124	GEN336170 1-GULF OXY U4
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23844	110.6044	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.5979	GEN509409 1-WILKES #3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.5787	GEN515040 1-SEMINOLE 3G
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.5344	GEN514910 2-REDBUD GEN
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.5344	GEN514911 2-REDBUD GEN
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23031	110.5051	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.505	GEN300006 1-NEW MADRID UNIT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23066	110.5032	DOVER SW - OKEENE 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.4994	GEN300007 1-NEW MADRID UNIT 2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23616	110.4301	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23061	110.4277	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.3698	GEN514998 1-MCCLAIN UNIT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.3698	GEN514999 1-MCCLAIN UNIT 2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22892	110.36	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.3158	GEN514899 1-REDBUD1S
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.3158	GEN514900 1-REDBUD2S
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.2896	GEN334070 1-LEWIS CREEK 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.2476	GEN511843 1-RIVERSIDE STATION #2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.2453	GEN542955 1-LACYGNE UNIT #1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23047	110.2434	HOLCOMB - SETAB 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.1387	GEN542956 2-LACYGNE UNIT #2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22836	110.0077	SPP-MKEC-08
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	110.0065	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.9999	GEN542962 2-IATAN UNIT #2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22706	109.9472	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22775	109.936	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22838	109.9337	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.9205	GEN505432 1-SIKESTON
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22916	109.902	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22838	109.8902	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8477	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8477	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22759	109.8424	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8388	GEN318007 1-5MOROW161 161.00
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.837	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8231	GEN334030 1-FRONTIER UNIT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8205	GEN560639 1-ASGI-10-07 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8204	GEN560636 1-ASGI-10-06 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8148	GEN501823 1-TECHE UNIT 3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8133	GEN337428 1-PERYVILLE UNIT #1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8133	GEN337430 1-PERYVILLE UNIT #3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7891	GEN515266 1-AES 1G
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7891	GEN515267 1-AES 2G
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7829	GEN337429 1-PERYVILLE UNIT #2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7829	GEN337432 1-PERYVILLE UNIT #5
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7746	GEN542957 1-IATAN UNIT #1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7724	GEN514905 1-REDBUD3S
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22774	109.7714	CIRCLE - MULLERGREEN 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.763	GEN337125 6-LS POWER BATESVILLE
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	109.7559	STLN-DEMARC6230.00 - SWEETW6 230.00 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	109.7559	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	109.7559	SPP-SWPS-02
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22836	109.7551	SPP-WERE-34
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22836	109.7523	SPP-MKEC-05
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22863	109.7513	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7497	GEN337006 1-DUKE MCADAMS G1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7497	GEN337007 1-DUKE MCADAMS G2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22787	109.7436	MULLERGREEN - SPEARVILLE 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23061	109.7359	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.734	GEN335203 1-NELSON UNIT 3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7289	GEN337008 1-DUKE MCADAMS S1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22816	109.7218	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7197	GEN334031 1-FRONTIER UNIT 2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7166	GEN336167 1-GULF OXY U1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7166	GEN336168 1-GULF OXY U2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7166	GEN336169 1-GULF OXY U3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7096	GEN542951 5-HAWTHORN UNIT #5
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7085	GEN335076 1-DYNEGY UNIT2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22816	109.708	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7002	GEN501911 1-ACADIA UNIT CT1A
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6955	GEN337421 1-OUCHITA CTG1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6955	GEN337423 1-OUCHITA CTG2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6955	GEN337425 1-OUCHITA CTG3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22836	109.6875	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6862	GEN547649 1-ASBURY UNIT #1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22730	109.6839	WRTOD400

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6723	GEN334392 1-EXXON MOBIL IPP 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6685	GEN335075 1-DYNEGY#1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6637	GEN514912 2-REDBUD GEN
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22916	109.6622	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23046	109.6421	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25791	109.6379	DBL-G0847-WO
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	109.6346	DOVER SW - HENESSEY 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22969	109.6331	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6268	GEN506752 1-LEBROCK GAS 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22863	109.6188	G05-13T 345.00 - LATHAMS7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6169	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6169	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	109.6155	AXTELL - PAULINE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22966	109.6141	OGE3TERM1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6074	GEN640009 1-COOPER NUCLEAR STATION
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.604	GEN338500 1-MCCLELLAN UNIT #1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6009	GEN515000 1-MCCLAIN UNIT 3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6008	GEN549890 1-SOUTHWEST 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22824	109.5965	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23012	109.5859	BENTON - ROSE HILL 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	109.5597	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.5573	GEN300003 1-THOMAS HILL UNIT 3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22662	109.5512	DBL-COM-MEDL
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	109.5266	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.5259	GEN511836 1-NORTHEASTERN STATION #1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.5198	GEN560323 1-G10-40 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22779	109.5141	MOORE - PAULINE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.5103	GEN337954 1-LYNCH UNIT #3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.5044	GEN560623 1-ASGI-10-01 0.6000
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.5034	G11-007T 345.00 - WOODRING 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4942	GEN547656 1-STATE LINE UNIT #2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22789	109.4786	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4724	GEN541151 3-SIBLEY GENERATING UNIT #3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22759	109.4695	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4659	GEN300031 1-CHOUTEAU CTG 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4659	GEN300032 1-CHOUTEAU CTG 2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4583	GEN520812 1-ANADRK5
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4582	GEN520813 1-ANADRK6
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4554	GEN338513 1-BAILEY UNIT #1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4548	GEN335201 1-NELSON UNIT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4511	GEN645012 2-NEBRASKA CITY 2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4425	GEN511953 G-COGENTRIX GAS # 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4421	GEN515443 1-MNCOWND1 34.500
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.442	GEN511954 S-COGENTRIX STEAM # 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4326	GEN599891 1-OKLAUN
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4241	GEN549893 2-SOUTHWEST 2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4225	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4137	GEN338510 1-151KNWRI
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4116	GEN511938 1-OEC STEAM # 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4042	GEN511851 1-COMANCHE #1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22973	109.3992	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3958	GEN501910 1-ACADIA UNIT ST1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23653	109.3945	DBL-HIT-G084
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.393	GEN335202 1-NELSON UNIT 2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3901	GEN503900 1-FITZHUGH CT1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22909	109.3807	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22739	109.3737	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3695	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	109.3586	SPP-SWPS-02A
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3578	GEN520811 1-ANADRK4
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3569	GEN337422 1-OUCHITA STG1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3569	GEN337424 1-OUCHITA STG2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3569	GEN337426 1-OUCHITA STG3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3546	GEN506749 1-EASTMAN GENERATION A
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22863	109.3526	LATHAM57 345.00 - ROSE HILL 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3515	GEN645011 1-NEBRASKA CITY 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22973	109.3413	DEWEY - IODINE 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.339	GEN300002 1-THOMAS HILL UNIT 2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22723	109.3383	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3359	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.334	GEN335545 1-DOW AEP UNITS
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3338	GEN337124 5-LS POWER BATESVILLE
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22594	109.3329	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22700	109.3301	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3252	GEN300016 1-1G1GPDEL 18.000
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3251	GEN300017 1-1G2GPDEL 18.000
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3182	GEN521129 1-BLUCANS 4 138.00
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.3031	PUTNAM - TALOGA 69KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3029	GEN335137 C4-PPG
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	109.3023	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22797	109.2994	KNOBHILL - SALINE 69KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22723	109.295	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22678	109.2945	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22797	109.2902	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22770	109.2895	CIMARRON - EL RENO 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.2844	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.284	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.2828	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22696	109.2771	OGE3TERM2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22716	109.2769	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22693	109.2744	MORRISON - STILLWATER 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22690	109.2701	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23046	109.2673	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22750	109.2592	MARSHALL - WOODRING 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2589	GEN334467 1-DUPONT UNIT#1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.2554	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2524	GEN645001 1-FORT CALHOUN 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22750	109.2507	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2482	GEN500915 3-WESTERN KRAFT
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2422	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2411	GEN546702 1-NM GEN N1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2409	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22768	109.2368	OKEENE - WATONGA SW 69KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2356	GEN335546 3-DOW COGEN
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2337	GEN334232 1-PELCNRD U1 13.800
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2337	GEN334233 1-PELCNRD U2 13.800
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2335	GEN334335 1-TOLEDO BEND
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.232	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22739	109.2309	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22678	109.2283	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2245	GEN511853 1-COMANCHE #3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22797	109.2233	GOLTRY - HELENAT2 69.000 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22698	109.2216	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22692	109.2208	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22739	109.2207	CAN_GA54 138.00 - HINTON 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2202	GEN334298 1-CYPR U1 13.800
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2202	GEN334299 1-CYPR U2 13.800
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2199	GEN511852 1-COMANCHE #2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2149	GEN560645 1-ASGI-10-09 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	109.2124	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22693	109.2121	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2084	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2084	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22797	109.2066	GOLTRY - IMO 69KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2033	GEN549899 5-JAMES RIVER 5
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22698	109.2031	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22774	109.1961	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1944	GEN560169 1-G08-13 0.5750
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22824	109.1912	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22719	109.1909	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1875	GEN335644 1-EXXON UNITS
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22682	109.1865	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22739	109.1804	CAN_GA54 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	109.1731	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22797	109.1727	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22969	109.1697	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22706	109.1659	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	109.1648	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22740	109.1634	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.1625	CORDELL - GOTEBO 69KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22698	109.1625	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22686	109.1614	MCELROY - STILLWATER 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22698	109.1533	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1522	GEN506753 1-LEBROCK GAS 2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22731	109.1507	CANTON - TALOGA 69KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22740	109.1472	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22698	109.1472	SPP-SWPS-T54
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22760	109.1447	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22707	109.1396	OVERTON-TRF
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	109.1395	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1354	GEN560118 1-G08-46 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22694	109.1299	BROOKLINE - MORGAN 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1296	GEN542952 1-MONTROSE UNIT #1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1287	GEN334458 1-CONOCO UNIT#3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22731	109.1241	CANTON - OKEENE 69KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22740	109.1225	HYDRO - WEATHERFORD 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1225	GEN334282 1-SAM RAYBURN 4
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1199	GEN300001 1-THOMAS HILL UNIT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22686	109.1198	KINZE - MCELROY 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1197	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.119	GEN509408 1-WILKES #2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	109.1149	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22684	109.1111	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1105	GEN542954 3-MONTROSE UNIT #3
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1069	GEN335640 1-ENCO
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22691	109.1035	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22685	109.1032	STEGALL - WAYSIDE 230KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22760	109.1026	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1004	GEN506750 1-EASTMAN GENERATION B
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.0992	GEN338511 1-1C7KNWRI
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22677	109.097	CLINTON - MONTROSE 161KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22687	109.0952	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22740	109.0938	HYDRO - SICKLES 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	109.093	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22719	109.0919	CHILDRESS - LAKE PAULINE 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22766	109.0901	OGE3TERM10
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22748	109.0748	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.7926	BASE CASE
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22666	108.503	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.5006	GEN539677 3-A. M. MULLERGEN GENERATOR
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4989	GEN560549 1-G06-06 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4934	GEN560238 1-G10-09 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4885	GEN560585 1-G06-44-2 0.6000
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4869	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22608	108.4836	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4802	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22894	108.4683	G08-12T7 345.00 - SOONER 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22677	108.4672	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4581	GEN562032 1-G11-017 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22660	108.4568	OGE3TERM14
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.446	GEN560329 1-G10-45 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22616	108.4432	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.443	GEN560209 1-G07-40 0.5750
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4427	GEN560522 1-G05-12 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4327	GEN560170 1-G08-16 34.500
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22699	108.4313	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22760	108.4213	WWRDEHV7 345.00 (WVDEHV-2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.417	GEN524285 1-WILDORADO WIND GEN
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4151	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4078	GEN560595 1-G06-47 0.6000
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4072	GEN560592 1-G06-45 0.6000
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22667	108.3881	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22686	108.3863	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3835	GEN560286 1-G10-01-1WTG 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3835	GEN560287 1-G10-01-2WTG 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	108.3827	DELAWARE - NEOSHO 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22605	108.3799	CLEVELAND - SOONER 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	108.3751	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3729	GEN562014 1-G11-023 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22660	108.3679	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22660	108.3675	AI12
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22660	108.3671	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22587	108.3669	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3659	GEN560256 1-G10-14-1 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3636	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3612	GEN560371 1-G07-46 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3597	GEN560586 1-G06-44-3 0.6000
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3569	GEN560257 1-G10-14-2 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22711	108.353	OGE3TERM7
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3487	GEN560173 1-G08-17 0.5750
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3476	GEN560105 1-G08-22 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23061	108.3413	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22761	108.331	WWRDEHV7 345.00 (WVDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22681	108.3278	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22681	108.3229	AMRN_OUT55
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	108.3105	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	108.3103	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	108.3092	SPP-WERE-41B
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22649	108.3019	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.274	GEN560353 1-G10-52 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.2415	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22711	108.2384	SPP-WERE-07B
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.2311	GEN562042 1-G11-014 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.2251	GEN523103 1-NOBLE_WND 3115.00
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22681	108.2221	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22564	108.1933	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22564	108.1895	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.1886	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.184	GEN560359 1-G08-51 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.1601	GEN560166 1-G07-48 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.1467	GEN560570 1-G06-39 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22683	108.1291	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22894	108.1041	G08-127T 345.00 - ROSE HILL 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.1023	GEN560190 1-G10-08 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.1005	GEN560279 1-G08-18 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22654	108.0833	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.0786	GEN523462 1-BLACKHAWK GEN #2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.0785	GEN523461 1-BLACKHAWK GEN #1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.0767	GEN562017 1-G11-022 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22628	108.0735	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22477	108.0463	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.0227	GEN562020 1-G11-021 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.0173	GEN520997 1-MORLND2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22513	108.0043	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.0042	GEN560598 1-G06-49 0.6000
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.9728	GEN527165 1-Mustang Gen #5
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.9726	GEN527161 1-MUSTANG GEN #1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.9726	GEN527162 1-MUSTANG GEN #2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.9715	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.9649	GEN560121 1-G08-47 0.5750
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.9281	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.8781	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22624	107.868	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.8658	GEN515389 1-TLGAWND1 34.500
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.8535	GEN560155 1-G10-11 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.8091	GEN520922 1-SLEEPING 138.00
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22737	107.7977	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.7619	GEN515790 1-FPLWND2
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.7125	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.7125	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.5769	GEN515397 1-OUSPRT 1 34.500
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22389	107.5602	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.2644	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.2484	GEN515364 1-CENT 11 0.6000
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22366	107.2376	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21953	107.1475	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.9057	GEN515393 1-OGEWNDZG
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.7804	GEN525561 1-TOLK GEN #1 24 KV
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.6947	GEN560180 1-G07-51 0.6000
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.6592	GEN523971 1-HARRINGTON GEN #1 24 KV



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.6533	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.653	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.2179	GEN560221 1-G07-62-1 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.2179	GEN560222 1-G07-62-2 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.2179	GEN560223 1-G07-62-3 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.2179	GEN560224 1-G07-62-4 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.0553	GEN531447 1-HOLCOMB GENERATOR
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	105.7761	GEN525562 1-TOLK GEN #2 24 KV
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	105.7355	GEN560429 1-G08-29 0.6400
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21958	105.0826	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	104.8044	GEN562023 1-G11-020 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	104.8044	GEN562026 1-G11-019 0.6900
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	102.431	GEN560648 1-G07-21 0.5750
FDNS	1		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	102.425	GEN560115 1-G08-44 0.6900
FDNS	1		2 11G	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.21322	148.6063	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	1		2 11G	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.21323	148.6019	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	1		2 11G	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23861	131.1941	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	1		2 11G	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23862	131.1907	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	1		2 11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.23704	112.7156	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	1		2 11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23704	112.7156	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	1		2 11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.23704	112.713	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	1		2 11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23704	112.713	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	2		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.27715	116.9574	DBL-MEDLO-WI
FDNS	2		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30451	105.8729	DBL-WOOD-MED
FDNS	2		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22995	101.7229	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.34509	121.0025	DBL-MEDLO-WI
FDNS	2		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.34509	121.0023	DBL-MEDLO-WI
FDNS	2		2 11G	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.20922	118.4226	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	2		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.37683	107.3592	DBL-WOOD-MED
FDNS	2		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.37683	107.3592	DBL-WOOD-MED
FDNS	2		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28906	105.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28906	105.0432	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		2 11G	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23387	104.974	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	3		2 11G	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.20927	127.0523	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	3		2 11G	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23417	111.2313	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22765	136.3785	LACYGNE - STILWELL 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22774	136.4528	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22791	138.4028	LACYGNE - NEOSHO 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22840	137.5417	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22831	137.9121	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23655	151.5356	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25152	150.1586	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25152	150.1586	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23618	147.2281	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24106	147.1828	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24106	147.1828	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	146.5581	GEN336821 1-GRAND GULF UNIT
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	145.196	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	144.5831	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	143.7912	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24054	143.6584	BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23655	143.3309	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	142.8176	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	142.3999	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	142.3551	GEN501801 1-DOLET HILLS UNIT1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23250	142.3361	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23655	142.3323	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23476	142.0662	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23476	142.0287	IMO TAP - MEN TAP 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23324	141.9766	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23618	141.924	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23349	141.8619	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23349	141.7372	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.7259	GEN514806 1-SOONER UNIT 2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.6643	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23250	141.6308	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23317	141.5823	MINGO - RED WILLOW 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.5734	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.5335	GEN337041 1-GERALD ANDRUS
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23248	141.5092	MINGO - SETAB 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23618	141.4891	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.4261	GEN501813 1-RODEMACHER UNIT 3
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.4193	GEN514805 1-SOONER UNIT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.3439	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.1923	GEN509403 1-PIRKEY GENERATION
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23297	141.1805	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23297	141.1429	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23950	141.0633	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.9721	GEN336831 1-BAXTER WILSON SES
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23711	140.9176	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.8378	GEN501812 1-RODEMACHER UNIT 2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.7942	GEN515040 1-SEMINOLE 1G
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.7903	GEN335206 1-NELSON UNIT 6
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.7646	GEN515223 1-MUSKOGEE 4G
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.7313	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.7052	GEN515225 1-MUSKOGEE 5G
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23221	140.6306	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23221	140.5783	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.5397	GEN520947 1-HUGO1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.5347	GEN334440 1-SABINE UNIT 4
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.3822	GEN335204 1-NELSON UNIT 4
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.3324	GEN509406 1-WELSH #3
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.3323	GEN509405 1-WELSH #2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.3322	GEN509404 1-WELSH #1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.1561	GEN509394 1-FLINT CREEK
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.0507	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23417	140.0272	BENTON - WICHITA 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.025	GEN334441 1-SABINE UNIT 5
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.9662	GEN560687 1-G11-007 0.5750
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23126	139.9226	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.8921	GEN511841 1-NORTHEASTERN STATION #4
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.8588	GEN511840 1-NORTHEASTERN STATION #3
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.8275	GEN511839 1-NORTHEASTERN STATION #2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	139.7792	ELK CITY 230KV - SWEETW76 230.00 230KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	139.7761	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23142	139.7487	HOLCOMB - SETAB 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23168	139.672	DOVER SW - OKEENE 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.6073	GEN512689 1-GRDA1 GSU1 22
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22879	139.5894	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.554	GEN512688 2-GRDA1 GSU2 22
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.3788	GEN515042 1-SEMINOLE 3G
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23020	139.3548	CLINTON JUNCTION - ELK CITY 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23760	139.221	DBL-HIT-G084
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23760	139.221	DBL-HIT-G084
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.0677	GEN515041 1-SEMINOLE 2G
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.0664	GEN336170 1-GULF OXY U4
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23027	139.0093	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.952	GEN300006 1-NEW MADRID UNIT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.9468	GEN300007 1-NEW MADRID UNIT 2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.9326	GEN509409 1-WILKES #3
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.9295	GEN514910 2-REDBUD GEN
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.9295	GEN514911 2-REDBUD GEN
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.7535	GEN514998 1-MCCLAIN UNIT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.7535	GEN514999 1-MCCLAIN UNIT 2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.6989	GEN542955 1-LACYGNE UNIT #1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	138.6956	SPP-MKEC-08
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.6831	GEN334070 1-LEWIS CREEK 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22860	138.6762	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.6743	GEN514900 1-REDBUD25
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.6742	GEN514899 1-REDBUD15
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23027	138.6681	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23067	138.6508	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22876	138.6144	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.5563	GEN542956 2-LACYGNE UNIT #2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.52	GEN511843 1-RIVERSIDE STATION #2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23153	138.4883	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22876	138.475	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22918	138.4725	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	138.466	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22926	138.4648	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22887	138.4623	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23067	138.4574	OGE3TERM1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23187	138.4364	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22815	138.434	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.4304	GEN542962 2-IATAN UNIT #2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22918	138.4294	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23039	138.4205	DOVER SW - HENESSEY 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22926	138.4087	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23039	138.3323	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23039	138.314	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	138.2959	SPP-WERE-34
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	138.2575	SPP-MKEC-05
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.2507	GEN505432 1-SIKESTON
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23006	138.1988	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22889	138.1836	AXTELL - PAULINE 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.1449	GEN318007 1-5MOROW161 161.00
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	138.1333	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	138.1333	SPP-SWPS-02
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	138.1333	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23118	138.1232	BENTON - ROSE HILL 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.1161	GEN560639 1-ASGI-10-07 0.6900
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.1158	GEN560636 1-ASGI-10-06 0.6900
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.1156	GEN334030 1-FRONTIER UNIT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.1151	GEN542957 1-IATAN UNIT #1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.1142	GEN501823 1-TECHE UNIT 3
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22860	138.096	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	138.0907	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0849	GEN337428 1-PERYVILLE UNIT #1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0849	GEN337430 1-PERYVILLE UNIT #3
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22964	138.0816	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0742	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0742	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22894	138.0723	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0622	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0594	GEN515266 1-AES 1G
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0594	GEN515267 1-AES 2G
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0582	GEN337125 6-LS POWER BATESVILLE
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0528	GEN337429 1-PERYVILLE UNIT #2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0528	GEN337432 1-PERYVILLE UNIT #5
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0486	GEN514905 1-REDBUD35
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0414	GEN337006 1-DUKE MCADAMS G1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0414	GEN337007 1-DUKE MCADAMS G2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22880	138.0364	MOORE - PAULINE 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0361	GEN542951 5-HAWTHORN UNIT #5
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0162	GEN337008 1-DUKE MCADAMS S1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0126	GEN335203 1-NELSON UNIT 3
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23067	137.9989	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22964	137.9987	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9835	GEN334031 1-FRONTIER UNIT 2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9802	GEN336167 1-GULF OXY U1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9802	GEN336168 1-GULF OXY U2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9802	GEN336169 1-GULF OXY U3
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9774	GEN520811 1-ANADRR4
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.975	GEN501911 1-ACADIA UNIT CT1A
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9719	GEN335076 1-DYNEGY UNIT2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22834	137.9689	WRTOD400
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9546	GEN337421 1-OUCHITA CTG1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9546	GEN337423 1-OUCHITA CTG2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9546	GEN337425 1-OUCHITA CTG3
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9511	GEN547649 1-ASBURY UNIT #1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23153	137.9429	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9402	GEN334392 1-EXXON MOBIL IPP 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9251	GEN335075 1-DYNEGY#1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8581	GEN338500 1-MCCLELLAN UNIT #1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8578	GEN515000 1-MCCLAIN UNIT 3
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	137.8366	SPP-SWPS-02A
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8337	GEN300003 1-THOMAS HILL UNIT 3
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8314	GEN549890 1-SOUTHWEST 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8195	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8195	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8147	GEN506752 1-LEBROCK GAS 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22795	137.8029	STEGALL - STEGALL TRANSFORMER 230KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22795	137.8022	TRF-STEGALL
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22824	137.774	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22899	137.7703	KNOBHILL - SALINE 69KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22861	137.7691	PUTNAM - TALOGA 69KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22964	137.7685	LATHAM57 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22899	137.7392	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.739	GEN337954 1-LYNCH UNIT #3
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22870	137.7371	CIMARRON - EL RENO 138KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23187	137.7367	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22895	137.7335	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22861	137.7328	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22861	137.7228	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22861	137.7208	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.7176	GEN511836 1-NORTHEASTERN STATION #1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.7112	GEN541151 3-SIBLEY GENERATING UNIT #3
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.7018	GEN547656 1-STATE LINE UNIT #2
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22824	137.6949	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6894	GEN300031 1-CHOUTEAU CTG 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6894	GEN300032 1-CHOUTEAU CTG 2
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22716	137.688	CIMARRON - MINCO 7 345.00 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6867	GEN338513 1-BAILEY UNIT #1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22861	137.6797	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22803	137.677	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6693	GEN335201 1-NELSON UNIT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22818	137.6674	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6514	GEN515443 1-MNCOWND1 34.500
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6514	GEN549893 2-SOUTHWEST 2
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22899	137.647	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22899	137.6344	GOLTRY - IMO 69KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6322	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6241	GEN338510 1-151KNWRI
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.617	GEN511953 G-COGENTRIX GAS # 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6163	GEN511954 S-COGENTRIX STEAM # 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6075	GEN501910 1-ACADIA UNIT ST1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6065	GEN520812 1-ANADRK5
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6064	GEN520813 1-ANADRK6
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5893	GEN335202 1-NELSON UNIT 2
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5847	GEN511938 1-OEC STEAM # 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22871	137.5761	OKEENE - WATONGA SW 69KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5728	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22866	137.5674	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22823	137.5639	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5616	GEN503900 1-FITZHUGH CT1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.549	GEN337422 1-OUCHITA STG1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.549	GEN337424 1-OUCHITA STG2
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.549	GEN337426 1-OUCHITA STG3
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5476	GEN511851 1-COMANCHE #1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22866	137.5473	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.542	GEN337124 5-LS POWER BATESVILLE
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.533	GEN300016 1-1G1GPDEL 18.000
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.533	GEN300017 1-1G2GPDEL 18.000
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5241	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5213	GEN335545 1-DOW AEP UNITS
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.515	GEN506749 1-EASTMAN GENERATION A
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22781	137.4901	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.4831	GEN335137 C4-PPG
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.4668	GEN521129 1-BLUCANS 4 138.00
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23077	137.4522	IODINE - WVRDEHV4 138.00 138KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22801	137.4469	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22854	137.4432	MARSHALL - WOODRING 138KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22854	137.433	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.4235	GEN599891 1-OKLAUN
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22876	137.3704	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.1944	GEN560603 1-G07-06 0.6000
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.9556	DIVCAPS4 138.00 138KV SWITCHED SHUNT
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.9556	DIVCAPS4 138.00 - DIVISION AVE 138KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.9506	MEMCAPS4 138.00 138KV SWITCHED SHUNT
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.9506	MEMCAPS4 138.00 - MEMORIAL 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.9106	BASE CASE
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22716	136.7343	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22780	136.6962	ARCADIA (ARCADIA3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22780	136.6841	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22337	136.6393	NORTHWEST - SPRING CREEK 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22337	136.633	SOONER - SPRING CREEK 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22712	136.5199	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22864	136.4631	WWRDEHV7 345.00 (WVDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22864	136.4559	WWRDEHV7 345.00 (WVDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22790	136.4548	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22815	136.4471	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22816	136.4164	OGE3TERM7
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22708	136.4155	CLEVELAND - SOONER 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23187	136.391	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22815	136.3807	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22815	136.3792	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22815	136.3703	SPP-WERE-41B
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22784	136.3689	88HAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22784	136.3629	AMRN_OUT55
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22765	136.3623	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22765	136.3618	All2
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22765	136.358	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22838	136.3513	DELAWARE - NEOSHO 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.3474	GEN562014 1-G11-023 0.6900
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23017	136.3292	G08-127T 345.00 - SOONER 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.3269	GEN560586 1-G06-44-3 0.6000
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.3258	GEN560256 1-G10-14-1 0.6900
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.3179	GEN560371 1-G07-46 0.6900
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22752	136.314	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.3082	GEN560257 1-G10-14-2 0.6900
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.303	GEN560173 1-G08-17 0.5750
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.2985	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22816	136.2923	SPP-WERE-07B
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.2825	GEN560105 1-G08-22 0.6900
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22662	136.2653	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22692	136.2597	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22662	136.2563	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22784	136.2529	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.191	GEN560353 1-G10-52 0.6900
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.1718	GEN562042 1-G11-014 0.6900
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22786	136.1405	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.1396	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.1261	GEN523103 1-NOBLE_WND 3115.00
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22612	136.1213	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.1071	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22730	136.0831	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22759	136.0715	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.0604	GEN560359 1-G08-51 0.6900
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.0541	GEN520997 1-MORLND2
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.0264	GEN560166 1-G07-48 0.6900
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.0068	GEN560570 1-G06-39 0.6900
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23017	135.9813	G08-127T 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.9606	GEN523461 1-BLACKHAWK GEN #1
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.9606	GEN523462 1-BLACKHAWK GEN #2
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.9589	GEN560279 1-G08-18 0.6900
FDNS	01ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.938	GEN562017 1-G11-022 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8798	GEN560121 1-G08-47 0.5750
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8647	GEN562020 1-G11-021 0.6900
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22726	135.8532	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8255	GEN527165 1-Mustang Gen #5
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8244	GEN560598 1-G06-49 0.6000
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8242	GEN527162 1-MUSTANG GEN #2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8242	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8241	GEN527161 1-MUSTANG GEN #1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.7668	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22586	135.7208	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22848	135.7159	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.6349	GEN560190 1-G10-08 0.6900
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.6204	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23568	135.5628	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.5464	GEN560155 1-G10-11 0.6900
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23568	135.5094	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.4037	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.4037	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22048	135.3033	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22497	135.1865	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.1832	GEN515389 1-TLGAWND1 34.500
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.0562	GEN520922 1-SLEEPING 138.00
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.9893	GEN515790 1-FPLWND2
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.8267	GEN515397 1-OUSPR1 34.500
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.7865	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22477	134.7534	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.1759	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.1452	GEN515364 1-CENT 11 0.6000
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.1256	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.1181	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.1177	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	133.6046	GEN515393 1-OGEWND2G
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	133.2455	GEN531447 1-HOLCOMB GENERATOR
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	133.1732	GEN560180 1-G07-51 0.6000
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	133.0425	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22049	132.998	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	132.5575	GEN560221 1-G07-62-1 0.6900
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	132.5575	GEN560222 1-G07-62-2 0.6900
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	132.5575	GEN560223 1-G07-62-3 0.6900
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	132.5575	GEN560224 1-G07-62-4 0.6900
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	131.6145	GEN560429 1-G08-29 0.6400
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	131.3771	GEN560225 1-G10-43 18.000
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	130.4681	GEN562023 1-G11-020 0.6900
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	130.4681	GEN562026 1-G11-019 0.6900
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	127.56	GEN560648 1-G07-21 0.5750
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	127.1085	GEN560115 1-G08-44 0.6900
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	123.153	GEN560175 1-G07-44 0.5750
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	122.9438	GEN562010 1-G11-024 0.6900
FDNS	01ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	122.794	GEN560282 1-G08-19 0.6000
FDNS	01ALL		2 11G	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.21565	175.8627	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01ALL		2 11G	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.21565	175.8591	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01ALL		2 11G	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.24111	156.053	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL		2 11G	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.24111	156.0502	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL		2 11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.23798	141.2474	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		2 11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23798	141.2474	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	01ALL		2 11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.23798	141.2377	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23798	141.2377	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22685	114.247	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22693	113.4767	LACYGNE - STILWELL 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22701	113.5075	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22714	115.288	LACYGNE - NEOSHO 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22767	114.4782	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	114.7747	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.28249	146.2183	DBL-MEDLO-WI
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30957	142.312	DBL-WOOD-MED
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23584	124.2109	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25093	121.8165	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25093	121.8165	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	121.6985	GEN336821 1-GRAND GULF UNIT
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24042	121.0606	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24042	121.0606	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	120.655	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	120.1744	GEN335831 1-RIVERBEND UNIT#1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23542	120.0256	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	119.5572	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	118.7679	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	118.5789	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	118.5106	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	118.458	GEN501801 1-DOLET HILLS UNIT1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23584	118.436	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	118.4266	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23977	118.3937	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.8848	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.832	GEN514806 1-SOONER UNIT 2
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.7726	GEN337041 1-GERALD ANDRUS
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.7502	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.7018	GEN515226 1-MUSKOGEE 6G
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23584	117.6932	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.6774	GEN501813 1-RODEMACHER UNIT 3
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.6643	GEN509403 1-PIRKEY GENERATION
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.5061	GEN514805 1-SOONER UNIT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.3364	GEN336831 1-BAXTER WILSON SES
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23542	117.3354	DEWEY - SOUTHWEST 138KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23185	117.2897	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.2185	GEN515223 1-MUSKOGEE 4G
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.2007	GEN501812 1-RODEMACHER UNIT 2
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.1678	GEN515225 1-MUSKOGEE 5G
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.1591	GEN335206 1-NELSON UNIT 6
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.1	GEN520947 1-HUGO1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23405	117.0584	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23405	117.0361	IMO TAP - MEN TAP 138KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23258	117.0208	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23542	117.0009	ROMAN NOSE - SOUTHWEST 138KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23278	116.9651	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.9525	GEN334440 1-SABINE UNIT 4
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.9221	GEN509406 1-WELSH #3
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.922	GEN509405 1-WELSH #2
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.9219	GEN509404 1-WELSH #1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.9072	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23278	116.8918	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.8307	GEN335204 1-NELSON UNIT 4
FDNS	01G11_019	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23185	116.7991	G10-16T 345.00 - SPEARVILLE 345KV CKT 1



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.7227	GEN509394 1-FLINT CREEK
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23255	116.6433	MINGO - RED WILLOW 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23184	116.5976	MINGO - SETAB 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.5707	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.538	GEN334441 1-SABINE UNIT 5
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.5064	GEN511841 1-NORTHEASTERN STATION #4
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.4783	GEN511840 1-NORTHEASTERN STATION #3
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.453	GEN511839 1-NORTHEASTERN STATION #2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22793	116.3129	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23148	116.3117	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.3104	GEN512689 1-GRDA1 GSU1 22
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23148	116.2793	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.1739	GEN512688 2-GRDA1 GSU2 22
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23208	116.125	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23208	116.111	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.0911	GEN515040 1-SEMINOLE 1G
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.0885	GEN515042 1-SEMINOLE 3G
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23346	116.0781	BENTON - WICHITA 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23875	116.0652	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.0554	GEN560687 1-G11-007 0.5750
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	116.0387	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	116.0384	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23645	115.9084	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25820	115.8217	DBL-G0847-WO
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.8187	GEN515041 1-SEMINOLE 2G
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23060	115.7994	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23097	115.7665	DOVER SW - OKEENE 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.7406	GEN336170 1-GULF OXY U4
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.7129	GEN509409 1-WILKES #3
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.664	GEN514910 2-REDBUD GEN
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.664	GEN514911 2-REDBUD GEN
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.631	GEN300006 1-NEW MADRID UNIT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.6253	GEN300007 1-NEW MADRID UNIT 2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22923	115.5821	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23076	115.5713	HOLCOMB - SETAB 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23098	115.5454	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.4997	GEN514998 1-MCCLAIN UNIT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.4997	GEN514999 1-MCCLAIN UNIT 2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.4458	GEN514900 1-REDBUD2S
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.4457	GEN514899 1-REDBUD1S
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.4215	GEN334070 1-LEWIS CREEK 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.3603	GEN511843 1-RIVERSIDE STATION #2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.3459	GEN542955 1-LACYGNE UNIT #1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.2397	GEN542956 2-LACYGNE UNIT #2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22867	115.214	SPP-MKEC-08
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	115.1797	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22805	115.1357	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22869	115.1263	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22737	115.114	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22946	115.1087	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.0956	GEN542962 2-IATAN UNIT #2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22869	115.0808	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.0501	GEN505432 1-SIKESTON
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22789	115.0426	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22805	114.9735	CIRCLE - MULLERGEN 230KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9711	GEN318007 1-5MOROW161 161.00

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9649	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9649	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22817	114.9566	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9543	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22867	114.9541	SPP-WERE-34
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9516	GEN334030 1-FRONTIER UNIT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22867	114.9511	SPP-MKEC-05
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.949	GEN560639 1-ASGI-10-07 0.6900
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9488	GEN560636 1-ASGI-10-06 0.6900
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9419	GEN501823 1-TECHE UNIT 3
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9337	GEN337428 1-PERYVILLE UNIT #1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9337	GEN337430 1-PERYVILLE UNIT #3
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	114.9267	STLN-DEMARC6230.00 - SWEETW76 230.00 230KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	114.9267	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	114.9267	SPP-SWPS-02
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9185	GEN515266 1-AES 1G
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9185	GEN515267 1-AES 2G
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22893	114.9134	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22846	114.9128	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9064	GEN337429 1-PERYVILLE UNIT #2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9064	GEN337432 1-PERYVILLE UNIT #5
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9032	GEN514905 1-REDBUD3S
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22846	114.8969	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8958	GEN337125 6-LS POWER BATESVILLE
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22999	114.8872	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8825	GEN337006 1-DUKE MCADAMS G1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8825	GEN337007 1-DUKE MCADAMS G2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8755	GEN542957 1-IATAN UNIT #1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23077	114.8708	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22692	114.868	DBL-COM-MEDL
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22867	114.8661	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22946	114.866	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8618	GEN337008 1-DUKE MCADAMS S1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8613	GEN335203 1-NELSON UNIT 3
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23098	114.8569	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8485	GEN334031 1-FRONTIER UNIT 2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8404	GEN336167 1-GULF OXY U1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8404	GEN336168 1-GULF OXY U2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8404	GEN336169 1-GULF OXY U3
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8356	GEN335076 1-DYNEGY UNIT2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22969	114.8306	DOVER SW - HENESSEY 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8272	GEN501911 1-ACADIA UNIT CT1A
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8219	GEN542951 5-HAWTHORN UNIT #5
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22761	114.8207	WRTOD400
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8197	GEN337421 1-OUCHITA CTG1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8197	GEN337423 1-OUCHITA CTG2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8197	GEN337425 1-OUCHITA CTG3
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22997	114.8176	OGE3TERM1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8176	GEN547649 1-ASBURY UNIT #1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22818	114.8065	AXTELL - PAULINE 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7997	GEN334392 1-EXXON MOBIL IPP 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7946	GEN514912 2-REBUD GEN
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.794	GEN335075 1-DYNEGY#1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22855	114.7909	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22893	114.7888	G05-13T 345.00 - LATHAMS7 345.00 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23683	114.7865	DBL-HIT-G084

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23683	114.7865	DBL-HIT-G084
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23044	114.7791	BENTON - ROSE HILL 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22969	114.7557	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7471	GEN506752 1-LEBROCK GAS 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7375	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7375	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7328	GEN515000 1-MCCLAIN UNIT 3
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7311	GEN338500 1-MCCLELLAN UNIT #1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7241	GEN549890 1-SOUTHWEST 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22969	114.7228	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22809	114.7081	MOORE - PAULINE 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6995	GEN640009 1-COOPER NUCLEAR STATION
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6857	GEN300003 1-THOMAS HILL UNIT 3
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22789	114.6703	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22819	114.6646	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6525	GEN560323 1-G10-40 0.6900
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6477	GEN511836 1-NORTHEASTERN STATION #1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6357	GEN337954 1-LYNCH UNIT #3
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22939	114.6335	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6227	GEN560623 1-ASGI-10-01 0.6000
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6146	GEN547656 1-STATE LINE UNIT #2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23003	114.5989	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5957	GEN300031 1-CHOUTEAU CTG 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5957	GEN300032 1-CHOUTEAU CTG 2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5869	GEN541151 3-SIBLEY GENERATING UNIT #3
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5828	GEN335201 1-NELSON UNIT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5826	GEN338513 1-BAILEY UNIT #1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5798	GEN520812 1-ANADRK5
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5798	GEN520813 1-ANADRK6
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5723	GEN515443 1-MNCOWND1 34.500
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22793	114.5716	G11-007T 345.00 - WOODRING 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5657	GEN511953 G-COGENTRIX GAS # 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5651	GEN511954 S-COGENTRIX STEAM # 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5529	GEN645012 2-NEBRASKA CITY 2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5515	GEN549893 2-SOUTHWEST 2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5508	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23003	114.5483	DEWEY - IODINE 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5417	GEN338510 1-1S1KNWRI
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	114.5371	SPP-SWPS-02A
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5351	GEN511938 1-OEC STEAM # 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5293	GEN520811 1-ANADRK4
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22769	114.5283	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22893	114.5282	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5258	GEN511851 1-COMANCHE #1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5245	GEN501910 1-ACADIA UNIT ST1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5245	GEN599891 1-OKLAUN
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5196	GEN335202 1-NELSON UNIT 2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5133	GEN503900 1-FITZHUGH CT1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4954	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22753	114.4936	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23077	114.4851	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4837	GEN337422 1-OUCHITA STG1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4837	GEN337424 1-OUCHITA STG2
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4837	GEN337426 1-OUCHITA STG3
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22828	114.4818	KNOBHILL - SALINE 69KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22731	114.4803	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4784	GEN506749 1-EASTMAN GENERATION A
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4721	GEN300002 1-THOMAS HILL UNIT 2
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	114.4628	PUTNAM - TALOGA 69KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4627	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4618	GEN337124 5-LS POWER BATESVILLE
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4611	GEN335545 1-DOW AEP UNITS
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4607	GEN645011 1-NEBRASKA CITY 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22828	114.4581	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22801	114.4574	CIMARRON - EL RENO 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4529	GEN300016 1-1G1GPDEL 18.000
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4529	GEN300017 1-1G2GPDEL 18.000
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	114.452	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22753	114.4487	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	114.448	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4459	GEN521129 1-BLUCANS 4 138.00
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	114.4435	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	114.4431	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	114.4418	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4303	GEN335137 C4-PPG
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22709	114.4293	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22625	114.4278	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	114.4138	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22726	114.4126	OGE3TERM2
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22724	114.4121	MORRISON - STILLWATER 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22999	114.4113	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22781	114.3957	MARSHALL - WOODRING 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22721	114.3929	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22828	114.39	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22798	114.3891	OKEENE - WATONGA SW 69KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3882	GEN334467 1-DUPONT UNIT#1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22781	114.3872	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22769	114.3834	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3778	GEN500915 3-WESTERN KRAFT
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22769	114.373	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22828	114.3729	GOLTRY - IMO 69KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22722	114.3667	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	114.3665	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3662	GEN645001 1-FORT CALHOUN 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22826	114.3651	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3634	GEN335546 3-DOW COGEN
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3631	GEN334335 1-TOLEDO BEND
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3619	GEN546702 1-NM GEN N1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3619	GEN334232 1-PELCNRD U1 13.800
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3619	GEN334233 1-PELCNRD U2 13.800
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22708	114.3614	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22855	114.3608	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22724	114.3582	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	114.3576	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3489	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3484	GEN334298 1-CYPR U1 13.800
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3484	GEN334299 1-CYPR U2 13.800
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3481	GEN511853 1-COMANCHE #3
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3481	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3464	GEN511852 1-COMANCHE #2
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	114.3462	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	01G11_019		0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22805	114.3447	SWISSVALE - WEST GARDNER 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3428	GEN560645 1-ASGI-10-09 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23490	114.3418	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22750	114.3413	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3397	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3365	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3365	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	114.3338	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22769	114.3316	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3255	GEN549899 5-JAMES RIVER 5
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3252	GEN560169 1-G08-13 0.5750
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23490	114.3243	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22713	114.3231	SUNNYSIDE (SUNNYSID3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22740	114.3219	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3171	GEN335644 1-EXXON UNITS
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22771	114.3115	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22762	114.3041	CANTON - TALOGA 69KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22737	114.2979	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22791	114.2965	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	114.2965	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22717	114.2954	MCELROY - STILLWATER 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22771	114.2953	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	114.2952	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	114.2919	SPP-SWPS-T54
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	114.2851	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2788	GEN506753 1-LEBROCK GAS 2
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22762	114.2745	CANTON - OKEENE 69KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22738	114.2714	OVERTON-TRF
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2707	GEN509408 1-WILKES #2
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22771	114.2703	HYDRO - WEATHERFORD 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2657	GEN560118 1-G08-46 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22725	114.2649	BROOKLINE - MORGAN 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2639	GEN542952 1-MONTROSE UNIT #1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22796	114.2593	OGE3TERM10
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2589	GEN334458 1-CONOCO UNIT#3
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	114.2573	CORDELL - GOTEBO 69KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22791	114.2559	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	114.2544	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2527	GEN334282 1-SAM RAYBURN 4
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22717	114.2523	KINZE - MCELROY 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2473	GEN300001 1-THOMAS HILL UNIT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22714	114.2453	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22808	114.2441	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	114.241	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22771	114.2408	HYDRO - SICKLES 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22716	114.2408	STEGALL - WAYSIDE 230KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22750	114.2397	CHILDRRESS - LAKE PAULINE 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22721	114.2394	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22718	114.2383	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.237	GEN335640 1-ENCO
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2294	GEN338511 1-1C7KNWRI
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2279	GEN506750 1-EASTMAN GENERATION B
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22708	114.2273	CLINTON - MONTROSE 161KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22781	114.2239	CALUMET - WATONGA SW 69KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22779	114.2211	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.9854	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.9854	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.9257	BASE CASE
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22696	113.6303	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6286	GEN562035 1-G11-016 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6219	GEN539677 3-A. M. MULLERGRN GENERATOR
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6214	GEN560549 1-G06-06 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6166	GEN560238 1-G10-09 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6119	GEN560585 1-G06-44-2 0.6000
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6096	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6092	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22639	113.6013	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22707	113.5981	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22645	113.5949	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22690	113.5857	OGE3TERM14
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.58	GEN562032 1-G11-017 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5699	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22930	113.5681	G08-127T 345.00 - SOONER 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22791	113.5669	WWRDEHV7 345.00 (WVDEHV-2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5663	GEN560329 1-G10-45 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5639	GEN560209 1-G07-40 0.5750
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5635	GEN560522 1-G05-12 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22730	113.5623	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.549	GEN560170 1-G08-16 34.500
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5339	GEN524285 1-WILDORADO WIND GEN
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5241	GEN560595 1-G06-47 0.6000
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5234	GEN560592 1-G06-45 0.6000
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22697	113.5159	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22717	113.5137	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5047	GEN560286 1-G10-01-1WTG 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5047	GEN560287 1-G10-01-2WTG 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	113.5025	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4923	GEN562014 1-G11-023 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22636	113.4914	CLEVELAND - SOONER 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22760	113.4905	DELAWARE - NEOSHO 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23098	113.4884	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.485	GEN560256 1-G10-14-1 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22742	113.4836	OGE3TERM7
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22691	113.4832	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22691	113.4828	AI12
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22691	113.4814	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4797	GEN560371 1-G07-46 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4792	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4791	GEN560586 1-G06-44-3 0.6000
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4756	GEN560257 1-G10-14-2 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22791	113.4706	WWRDEHV7 345.00 (WVDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4652	GEN560173 1-G08-17 0.5750
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22618	113.4631	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22712	113.4575	88HAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4571	GEN560105 1-G08-22 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22712	113.4524	AMRN_OUT55
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	113.4415	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	113.4411	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	113.4399	SPP-WERE-41B
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22680	113.4241	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.3877	GEN560353 1-G10-52 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22742	113.3713	SPP-WERE-07B
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22711	113.3524	DELL 500 - INDEPENDENCE 500KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.3497	GEN562042 1-G11-014 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.3391	GEN523103 1-NOBLE_WND 3115.00
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.3391	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22593	113.3164	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22593	113.3153	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.293	GEN560359 1-G08-51 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.2877	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.2654	GEN560166 1-G07-48 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22713	113.2581	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.2519	GEN560570 1-G06-39 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.2164	GEN560190 1-G10-08 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22930	113.2134	G08-127T 345.00 - ROSE HILL 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.2084	GEN560279 1-G08-18 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22685	113.2013	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.1905	GEN523462 1-BLACKHAWK GEN #2
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.1904	GEN523461 1-BLACKHAWK GEN #1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.1873	GEN562017 1-G11-022 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22659	113.1836	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.1778	GEN520997 1-MORLND2
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.1324	GEN562020 1-G11-021 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22543	113.1237	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22509	113.1116	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.1102	GEN560598 1-G06-49 0.6000
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.0814	GEN560121 1-G08-47 0.5750
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.0772	GEN527165 1-Mustang Gen #5
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.0769	GEN527162 1-MUSTANG GEN #2
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.0768	GEN527161 1-MUSTANG GEN #1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.0758	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.0309	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22655	112.9894	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.9762	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.9739	GEN515389 1-TLGAWND1 34.500
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.9696	GEN560155 1-G10-11 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22770	112.9098	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.9047	GEN520922 1-SLEEPING 138.00
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.865	GEN515790 1-FPLWND2
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.7942	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.7942	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.6725	GEN515397 1-OUSPR1 34.500
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22421	112.608	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.3349	GEN515364 1-CENT 11 0.6000
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.3264	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22398	112.272	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21981	112.1823	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.9879	GEN515393 1-OGWEND2G
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.8323	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.7702	GEN560180 1-G07-51 0.6000
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.7341	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.7281	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.7277	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.0772	GEN531447 1-HOLCOMB GENERATOR
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	110.822	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	110.7739	GEN560429 1-G08-29 0.6400
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	110.6337	GEN560221 1-G07-62-1 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	110.6337	GEN560222 1-G07-62-2 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	110.6337	GEN560223 1-G07-62-3 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	110.6337	GEN560224 1-G07-62-4 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21986	110.1061	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	108.8803	GEN562023 1-G11-020 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	108.8803	GEN562026 1-G11-019 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	107.4696	GEN560648 1-G07-21 0.5750
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	107.4499	GEN560115 1-G08-44 0.6900
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	104.3259	GEN560175 1-G07-44 0.5750
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	104.2767	GEN560282 1-G08-19 0.6000
FDNS	01G11_019		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	104.2612	GEN562010 1-G11-024 0.6900
FDNS	01G11_019		2 11G	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.21389	153.2624	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01G11_019		2 11G	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.21389	153.2578	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01G11_019		2 11G	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23931	135.4741	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01G11_019		2 11G	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23931	135.4705	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01G11_019		2 11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.23734	118.0697	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_019		2 11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23734	118.0697	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	01G11_019		2 11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.23734	118.067	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_019		2 11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23734	118.067	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28072	102.801	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28072	102.7725	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28080	101.9173	LACYGNE - STILWELL 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28080	101.8867	LACYGNE - STILWELL 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28090	101.9765	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28090	101.9452	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22166	100.2436	LACYGNE - NEOSHO 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28091	104.1295	LACYGNE - NEOSHO 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28091	104.1056	LACYGNE - NEOSHO 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28167	103.0816	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28167	103.0547	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28092	102.7825	CRAIG - STRANGER CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28092	102.7529	CRAIG - STRANGER CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28156	103.4234	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28156	103.3981	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28084	102.7611	ROSE HILL - WOLF CREEK 345KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30277	123.3172	DBL-WOOD-MED
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23461	106.9267	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23461	106.9267	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	106.8315	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	105.6948	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24510	105.6232	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24510	105.6232	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	105.2448	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	104.5444	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22676	104.3941	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	103.7515	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	103.5899	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	103.5217	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	103.4608	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	103.4402	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	103.1951	ELK CITY 230KV - SWEETW76 230.00 230KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	103.1946	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22979	103.1784	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.8953	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22979	102.8714	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.813	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.7934	GEN337041 1-GERALD ANDRUS
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.6604	GEN501813 1-RODEMACHER UNIT 3



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22172	102.6193	SPP-SWPS-03
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.5596	GEN509403 1-PIRKEY GENERATION
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22979	102.5253	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.3487	GEN514806 1-SOONER UNIT 2
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.3214	GEN336831 1-BAXTER WILSON SES
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	102.2806	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.1925	GEN515226 1-MUSKOGEE 6G
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.1637	GEN501812 1-RODEMACHER UNIT 2
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.124	GEN335206 1-NELSON UNIT 6
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.0496	GEN514805 1-SOONER UNIT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	101.9904	SPP-SWPS-02
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	101.9904	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	101.9904	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.901	GEN334440 1-SABINE UNIT 4
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.8811	GEN520947 1-HUGO1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22841	101.8467	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22841	101.8133	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.7976	GEN509406 1-WELSH #3
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.7975	GEN509404 1-WELSH #1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.7975	GEN509405 1-WELSH #2
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22718	101.7798	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.7772	GEN335204 1-NELSON UNIT 4
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.7493	GEN515223 1-MUSKOGEE 4G
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.7029	GEN515225 1-MUSKOGEE 5G
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22718	101.6888	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	101.6572	SPP-SWPS-02A
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23081	101.6266	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.6097	GEN509394 1-FLINT CREEK
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22518	101.5908	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22781	101.5716	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22531	101.5203	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.5168	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22172	101.4746	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.4708	GEN334441 1-SABINE UNIT 5
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.3751	GEN511841 1-NORTHEASTERN STATION #4
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22378	101.353	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.3464	GEN511840 1-NORTHEASTERN STATION #3
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.3166	GEN511839 1-NORTHEASTERN STATION #2
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.1777	GEN512689 1-GRDA1 GSU1 22
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22592	101.1291	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22592	101.0973	CEDARDALE - OKEENE 138KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22937	101.0812	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22937	101.0771	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22506	101.0444	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.0425	GEN512688 2-GRDA1 GSU2 22
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22531	100.9191	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23512	100.8103	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.6813	GEN515042 1-SEMINOLE 3G
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.6505	GEN336170 1-GULF OXY U4
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22073	100.5941	CIMARRON - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.5699	GEN300006 1-NEW MADRID UNIT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.5648	GEN300007 1-NEW MADRID UNIT 2
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.5634	GEN509409 1-WILKES #3
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22541	100.5445	DOVER SW - OKEENE 138KV CKT 1
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.5293	GEN515040 1-SEMINOLE 1G
FDNS	02ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.4384	GEN515041 1-SEMINOLE 2G

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22249	100.3781	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.3075	GEN542955 1-LACYGNE UNIT #1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.2976	GEN334070 1-LEWIS CREEK 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.2797	GEN514910 2-REDBUD GEN
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.2797	GEN514911 2-REDBUD GEN
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22298	100.2657	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.261	GEN542956 2-LACYGNE UNIT #2
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22298	100.2244	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.1866	GEN511843 1-RIVERSIDE STATION #2
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22435	100.1806	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22257	100.1673	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22318	100.1609	SPP-MKEC-08
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22241	100.1448	SMOKYHLE 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.1401	GEN514998 1-MCCLAIN UNIT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.1401	GEN514999 1-MCCLAIN UNIT 2
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22255	100.137	CIRCLE - MULLERGREEN 230KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.1331	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22384	100.1082	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.0855	GEN514900 1-REDBUD2S
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.0854	GEN514899 1-REDBUD1S
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22685	100	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22487	100	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22454	100	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22454	100	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22270	100	MULLERGREEN - SPEARVILLE 230KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22249	100	G11-007T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22073	100	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.34311	144.3307	DBL-MEDLO-WI
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.34311	144.3306	DBL-MEDLO-WI
FDNS	02ALL		2 11G	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.20929	128.6358	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.37471	128.378	DBL-WOOD-MED
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.37471	128.378	DBL-WOOD-MED
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28708	117.5903	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28708	117.5627	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28708	116.5021	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28708	116.4728	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23373	114.689	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29626	112.2816	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29626	112.2816	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29626	112.2815	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29626	112.2815	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28700	110.92	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28700	110.8274	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.30874	110.1515	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.30874	110.1515	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.30874	110.1381	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.30874	110.1381	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28422	109.5072	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28422	109.3497	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	108.6311	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	108.6109	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28069	108.4247	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28069	108.424	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28069	108.3668	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28069	108.3661	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28724	108.0719	MINGO - RED WILLOW 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28724	108.0344	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28643	108.0146	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28643	107.974	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	107.9721	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	107.9518	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28654	107.6583	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28071	107.6363	SPP-SWPS-03
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28654	107.6331	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28071	107.5843	SPP-SWPS-03
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	107.434	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	107.4121	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.29003	107.2905	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.29003	107.276	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28069	107.2237	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28069	107.1703	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	107.0557	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	107.0341	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28654	106.9542	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28654	106.9278	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.29003	106.9071	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.29003	106.8918	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28069	106.8453	SPP-SWPS-02
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28069	106.8453	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28069	106.8453	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28069	106.7965	SPP-SWPS-02
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28069	106.7965	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28069	106.7965	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.29003	106.4995	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.29003	106.4824	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28069	106.4708	SPP-SWPS-02A
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.29194	106.4431	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28069	106.42	SPP-SWPS-02A
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.29194	106.3834	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	106.3071	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	106.2837	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	106.2734	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	106.2524	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	106.0462	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28087	106.0354	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	106.0222	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	106.0212	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28524	106.0084	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	105.9983	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28087	105.9911	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	105.9825	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28524	105.9704	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	105.9573	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28744	105.8922	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28886	105.8848	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28744	105.8743	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28886	105.868	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28886	105.8549	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28886	105.8381	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28744	105.7962	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28744	105.7783	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	105.7178	GEN514806 1-SOONER UNIT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.6965	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.6286	GEN509403 1-PIRKEY GENERATION
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.6064	GEN509403 1-PIRKEY GENERATION
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.5757	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.5513	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28323	105.5435	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28323	105.5178	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.4831	GEN501813 1-RODEMACHER UNIT 3
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.4603	GEN515226 1-MUSKOGEE 6G
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.4591	GEN501813 1-RODEMACHER UNIT 3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.4379	GEN515226 1-MUSKOGEE 6G
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.4263	GEN337041 1-GERALD ANDRUS
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.4225	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.4011	GEN337041 1-GERALD ANDRUS
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28790	105.3987	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.3977	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28790	105.3818	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.3098	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28344	105.2896	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28509	105.2847	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.2833	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28344	105.2717	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28509	105.2596	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28991	105.2428	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28991	105.2052	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28991	105.2049	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.1953	GEN520947 1-HUGO1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28593	105.192	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.1732	GEN520947 1-HUGO1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28593	105.172	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28991	105.1694	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28593	105.1447	CEDARDALE - OKEENE 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28593	105.1248	CEDARDALE - OKEENE 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.1048	GEN336831 1-BAXTER WILSON SES
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.0947	GEN501812 1-RODEMACHER UNIT 2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.0794	GEN336831 1-BAXTER WILSON SES
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.0736	GEN515223 1-MUSKOGEE 4G
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.0699	GEN501812 1-RODEMACHER UNIT 2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.0502	GEN515223 1-MUSKOGEE 4G
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.0471	GEN335206 1-NELSON UNIT 6
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.0332	GEN515225 1-MUSKOGEE 5G
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.0221	GEN335206 1-NELSON UNIT 6
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.0136	GEN509406 1-WELSH #3
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.0135	GEN509404 1-WELSH #1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	105.0135	GEN509405 1-WELSH #2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	105.0098	GEN515225 1-MUSKOGEE 5G
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	104.9901	GEN509406 1-WELSH #3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	104.99	GEN509404 1-WELSH #1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	104.99	GEN509405 1-WELSH #2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	104.8944	GEN334440 1-SABINE UNIT 4
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	104.8692	GEN334440 1-SABINE UNIT 4
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	104.8067	GEN509394 1-FLINT CREEK
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	104.7809	GEN509394 1-FLINT CREEK
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	104.7793	GEN335204 1-NELSON UNIT 4
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.28095	104.7538	GEN335204 1-NELSON UNIT 4
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.29715	104.7517	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28422	104.7208	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29715	104.7175	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28422	104.6626	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.66	GEN511841 1-NORTHEASTERN STATION #4
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.6358	GEN511840 1-NORTHEASTERN STATION #3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.6342	GEN511841 1-NORTHEASTERN STATION #4
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.6266	GEN511839 1-NORTHEASTERN STATION #2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.61	GEN511840 1-NORTHEASTERN STATION #3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.6008	GEN511839 1-NORTHEASTERN STATION #2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.5547	GEN334441 1-SABINE UNIT 5
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.5289	GEN334441 1-SABINE UNIT 5
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.5028	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.4947	GEN512689 1-GRDA1 GSU1 22
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.4762	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28539	104.4715	DOVER SW - OKEENE 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.4689	GEN512689 1-GRDA1 GSU1 22
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.4627	GEN560282 1-G08-19 0.6000
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28539	104.4507	DOVER SW - OKEENE 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.4452	GEN560282 1-G08-19 0.6000
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.3972	GEN562010 1-G11-024 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.3868	GEN562010 1-G11-024 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.3779	GEN512688 2-GRDA1 GSU2 22
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28344	104.3746	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28344	104.352	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.3518	GEN512688 2-GRDA1 GSU2 22
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.3498	GEN560175 1-G07-44 0.5750
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.3451	GEN560175 1-G07-44 0.5750
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27853	104.3329	CIMARRON - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27853	104.3113	CIMARRON - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28191	104.2796	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.267	GEN515042 1-SEMINOLE 3G
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28191	104.2473	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.2432	GEN515042 1-SEMINOLE 3G
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28246	104.2324	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28280	104.2077	SPP-MKEC-08
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28246	104.205	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28074	104.1873	DBL-COM-MEDL
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28280	104.1796	SPP-MKEC-08
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28246	104.1777	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28206	104.1596	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28211	104.1577	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28246	104.1516	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28206	104.129	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28211	104.1286	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28363	104.0892	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28363	104.0566	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.0388	GEN515041 1-SEMINOLE 2G
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.0156	GEN515040 1-SEMINOLE 1G
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.0143	GEN515041 1-SEMINOLE 2G
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.9906	GEN515040 1-SEMINOLE 1G
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28227	103.9715	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.9576	GEN509409 1-WILKES #3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28227	103.9405	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.9322	GEN509409 1-WILKES #3
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28427	103.9133	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28427	103.8857	IODINE - WWRDEHV4 138.00 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.8703	GEN336170 1-GULF OXY U4
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.8427	GEN336170 1-GULF OXY U4
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28427	103.8391	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.8308	GEN514910 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.8308	GEN514911 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28280	103.8113	SPP-WERE-34
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28427	103.8111	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28280	103.8076	SPP-MKEC-05
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.805	GEN514910 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.805	GEN514911 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28280	103.7861	SPP-WERE-34
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28280	103.7823	SPP-MKEC-05
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.7648	GEN514998 1-MCCLAIN UNIT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.7648	GEN514999 1-MCCLAIN UNIT 2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.7639	GEN560115 1-G08-44 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.7552	GEN560648 1-G07-21 0.5750
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.7442	GEN560115 1-G08-44 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28191	103.7437	KNOLL 230 - SMOXYHL6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.7401	GEN560648 1-G07-21 0.5750
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.7397	GEN514998 1-MCCLAIN UNIT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.7397	GEN514999 1-MCCLAIN UNIT 2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28227	103.7371	AXTELL - PAULINE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28455	103.7194	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28191	103.7123	KNOLL 230 - SMOXYHL6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28227	103.7084	AXTELL - PAULINE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.7066	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.7057	GEN511843 1-RIVERSIDE STATION #2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28455	103.6952	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.6792	GEN511843 1-RIVERSIDE STATION #2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.6712	GEN300006 1-NEW MADRID UNIT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.6695	GEN334070 1-LEWIS CREEK 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.6651	GEN300007 1-NEW MADRID UNIT 2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.6571	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.6558	GEN514899 1-REDBUD1S
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.6558	GEN514900 1-REDBUD2S
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28280	103.6458	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.6429	GEN334070 1-LEWIS CREEK 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.6424	GEN300006 1-NEW MADRID UNIT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.6362	GEN300007 1-NEW MADRID UNIT 2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.6294	GEN514899 1-REDBUD1S
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.6294	GEN514900 1-REDBUD2S
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28256	103.629	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28280	103.6205	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28256	103.6026	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28256	103.6022	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28217	103.6007	MOORE - PAULINE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28702	103.585	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28256	103.5763	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28217	103.5717	MOORE - PAULINE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28702	103.5657	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28702	103.5599	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27853	103.5576	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28300	103.5522	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28702	103.5409	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27853	103.5313	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28300	103.5293	G05-13T 345.00 - NEOSHO 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28128	103.4834	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28160	103.477	WRTOD400	
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28160	103.4519	WRTOD400	
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28128	103.4465	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28300	103.4221	G05-13T	345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28300	103.398	G05-13T	345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28405	103.3871	DOVER SW	- HENESSEY 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28205	103.3776	LAWTON EASTSIDE	- SUNNYSIDE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28405	103.3604	DOVER SW	- HENESSEY 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28602	103.3581	POTTER COUNTY INTERCHANGE (WAUK 90343-A)	345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.3502	GEN560639	1-ASGI-10-07 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.3489	GEN560636	1-ASGI-10-06 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28205	103.348	LAWTON EASTSIDE	- SUNNYSIDE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.27945	103.3451	GRACMNT7	345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28437	103.3412	OGE3TERM1	
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.3218	GEN560639	1-ASGI-10-07 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.3206	GEN560636	1-ASGI-10-06 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28602	103.3199	POTTER COUNTY INTERCHANGE (WAUK 90343-A)	345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28117	103.3198	TRF-STEGALL	
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28117	103.3176	STEGALL TY 345/230KV TRANSFORMER CKT 1	
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28117	103.3168	NEB01WAPAB3	
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.27945	103.3159	GRACMNT7	345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28117	103.3147	STEGALL - STEGALL TRANSFORMER 230KV CKT 1	
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.314	GEN509391	G1-ARSENAL HILL GENS #2 (STALL)
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.314	GEN509392	G2-ARSENAL HILL GENS #3 (STALL)
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28437	103.3137	OGE3TERM1	
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28131	103.3093	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST	138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.3051	GEN509393	S1-ARSENAL HILL GENS #4 (STALL)
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2987	GEN334030	1-FRONTIER UNIT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28405	103.2903	HENESSEY - WAUKOMIS	138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28117	103.2902	TRF-STEGALL	
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.2899	KIRBY SWITCHING STATION - MCCLELLAN SUB	115KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28117	103.2878	STEGALL TY 345/230KV TRANSFORMER CKT 1	
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28117	103.2871	NEB01WAPAB3	
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2865	GEN509391	G1-ARSENAL HILL GENS #2 (STALL)
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2865	GEN509392	G2-ARSENAL HILL GENS #3 (STALL)
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28117	103.285	STEGALL - STEGALL TRANSFORMER 230KV CKT 1	
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28131	103.2807	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST	138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2776	GEN509393	S1-ARSENAL HILL GENS #4 (STALL)
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2711	GEN334030	1-FRONTIER UNIT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28405	103.2631	HENESSEY - WAUKOMIS	138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.2623	MCCLELLAN SUB - MCLEAN RURAL SUB	115KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28113	103.259	KIRBY SWITCHING STATION - MCCLELLAN SUB	115KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2514	GEN501823	1-TECHE UNIT 3
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28405	103.2484	WAUKOMIS - WAUKOMIS TAP	138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2402	GEN318007	1-SMOROW161 161.00
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2397	GEN505432	1-SIKESTON
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28187	103.2366	CLINTON - G07-32T	138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2324	GEN337428	1-PERYVILLE UNIT #1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2324	GEN337430	1-PERYVILLE UNIT #3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28113	103.2315	MCCLELLAN SUB - MCLEAN RURAL SUB	115KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2228	GEN501823	1-TECHE UNIT 3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28405	103.2208	WAUKOMIS - WAUKOMIS TAP	138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2206	GEN514905	1-REDBUD3S
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28187	103.217	CLINTON - WEATHERFORD	138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2119	GEN334031	1-FRONTIER UNIT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2115	GEN318007 1-5MOROW161 161.00
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2108	GEN337429 1-PERYVILLE UNIT #2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2108	GEN337432 1-PERYVILLE UNIT #5
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2103	GEN505432 1-SKESTON
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28143	103.2091	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28187	103.2086	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2043	GEN337428 1-PERYVILLE UNIT #1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2043	GEN337430 1-PERYVILLE UNIT #3
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1972	GEN515266 1-AES 1G
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1972	GEN515267 1-AES 2G
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1928	GEN514905 1-REDBUD3S
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28187	103.1889	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1883	GEN335203 1-NELSON UNIT 3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1841	GEN334031 1-FRONTIER UNIT 2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1827	GEN337429 1-PERYVILLE UNIT #2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1826	GEN337432 1-PERYVILLE UNIT #5
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.1819	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28143	103.1789	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.1787	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28388	103.1777	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1745	GEN560687 1-G11-007 0.5750
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28131	103.1741	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1739	GEN337125 6-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.1715	SPP-SWPS-T54
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28269	103.1707	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1692	GEN515266 1-AES 1G
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1692	GEN515267 1-AES 2G
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1663	GEN335076 1-DYNEGY UNIT2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1653	GEN337006 1-DUKE MCADAMS G1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1653	GEN337007 1-DUKE MCADAMS G2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1619	GEN560323 1-G10-40 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28131	103.16	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1596	GEN335203 1-NELSON UNIT 3
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1555	GEN501911 1-ACADIA UNIT CT1A
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1553	GEN336167 1-GULF OXY U1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1553	GEN336168 1-GULF OXY U2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1553	GEN336169 1-GULF OXY U3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28388	103.1522	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28113	103.1511	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1496	GEN337008 1-DUKE MCADAMS S1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1486	GEN560687 1-G11-007 0.5750
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28113	103.1479	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1469	GEN334392 1-EXXON MOBIL IPP 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1456	GEN337125 6-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28131	103.1449	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28300	103.1429	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1425	GEN337421 1-OUCHITA CTG1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1425	GEN337423 1-OUCHITA CTG2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1425	GEN337425 1-OUCHITA CTG3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28269	103.1414	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28113	103.1408	SPP-SWPS-T54
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1402	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1402	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1382	GEN335076 1-DYNEGY UNIT2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1369	GEN337006 1-DUKE MCADAMS G1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1369	GEN337007 1-DUKE MCADAMS G2



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1359	GEN560323 1-G10-40 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1354	GEN506752 1-LEBROCK GAS 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1344	GEN335075 1-DYNEGY#1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1334	GEN514912 2-REBUD GEN
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28131	103.1309	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28128	103.1292	AMARILLO SOUTH INTERCHANGE - G07-48T 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1269	GEN501911 1-ACADIA UNIT CT1A
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1266	GEN336167 1-GULF OXY U1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1266	GEN336168 1-GULF OXY U2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1266	GEN336169 1-GULF OXY U3
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28048	103.1255	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.124	GEN547649 1-ASBURY UNIT #1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28116	103.123	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28131	103.1222	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1211	GEN337008 1-DUKE MCADAMS S1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1183	GEN334392 1-EXXON MOBIL IPP 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28300	103.117	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28172	103.1158	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1142	GEN337421 1-OUCHITA CTG1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1142	GEN337423 1-OUCHITA CTG2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1142	GEN337425 1-OUCHITA CTG3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1118	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1118	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.27991	103.1101	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1097	GEN515000 1-MCCLAIN UNIT 3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1074	GEN506752 1-LEBROCK GAS 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1061	GEN335075 1-DYNEGY#1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1054	GEN514912 2-REBUD GEN
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.0944	GEN547649 1-ASBURY UNIT #1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28128	103.0943	AMARILLO SOUTH INTERCHANGE - G07-48T 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28116	103.0943	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28131	103.093	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28048	103.0905	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.087	GEN515443 1-MNCOWND1 34.500
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28172	103.0869	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.0825	GEN515000 1-MCCLAIN UNIT 3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.27991	103.0823	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.0818	GEN338500 1-MCCLELLAN UNIT #1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28172	103.065	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.0622	GEN511836 1-NORTHEASTERN STATION #1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.0597	GEN515443 1-MNCOWND1 34.500
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28116	103.0575	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.0534	GEN338500 1-MCCLELLAN UNIT #1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28148	103.0505	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.0503	GEN549890 1-SOUTHWEST 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.0371	SHAMROCK - WELLINGTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28172	103.0357	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	103.0351	CONWAY SUB - YARNELL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28235	103.0343	KNOBHILL - SALINE 69KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.0336	GEN511836 1-NORTHEASTERN STATION #1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28116	103.0334	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28101	103.03	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.0284	SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28118	103.0278	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28116	103.0268	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	103.0244	NICHOLS STATION - YARNELL SUB 115KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28148	103.0206	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.0206	GEN549890 1-SOUTHWEST 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.0199	GEN300031 1-CHOUTEAU CTG 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.0199	GEN300032 1-CHOUTEAU CTG 2
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.0172	GEN520812 1-ANADRK5
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.0171	GEN520813 1-ANADRK6
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28141	103.0154	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28269	103.0117	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28166	103.0117	OGE3TERM10
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28235	103.0068	KNOBHILL - SALINE 69KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28113	103.0066	SHAMROCK - WELLINGTON 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28235	103.0065	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28116	103.0044	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28099	103.0043	CONWAY SUB - YARNELL SUB 115KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28225	103.0033	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.0021	GEN511953 G-COGENTRIX GAS # 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.0015	GEN511954 S-COGENTRIX STEAM # 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28101	103.0014	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.0008	GEN337954 1-LYNCH UNIT #3
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28118	102.998	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28113	102.998	SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28187	102.9952	CLINTON JUNCTION - G07-32T 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28099	102.9933	NICHOLS STATION - YARNELL SUB 115KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28141	102.9914	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.9912	GEN300031 1-CHOUTEAU CTG 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.9912	GEN300032 1-CHOUTEAU CTG 2
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.9893	GEN520812 1-ANADRK5
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.9892	GEN520813 1-ANADRK6
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.9858	GEN547656 1-STATE LINE UNIT #2
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.9847	GEN511851 1-COMANCHE #1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28108	102.9839	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28166	102.9823	OGE3TERM10
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28269	102.9816	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28116	102.9797	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28235	102.9787	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28225	102.9749	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.9736	GEN511953 G-COGENTRIX GAS # 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.973	GEN511954 S-COGENTRIX STEAM # 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.9721	GEN337954 1-LYNCH UNIT #3
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.9717	GEN511938 1-OEC STEAM # 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28187	102.9665	CLINTON JUNCTION - G07-32T 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28178	102.9661	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.9658	GEN335201 1-NELSON UNIT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28099	102.9598	SPP-SWPS-T53
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.9572	GEN511851 1-COMANCHE #1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.9563	GEN547656 1-STATE LINE UNIT #2
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28207	102.9544	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28110	102.9541	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28099	102.9512	CONWAY SUB - KIRBY SWITCHING STATION 115KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28108	102.9508	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28116	102.9507	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28116	102.9501	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.9479	GEN509408 1-WILKES #2
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28113	102.9462	HOLLIS TAP - WELLINGTON 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28141	102.9446	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.9431	GEN511938 1-OEC STEAM # 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME						
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.9394	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1			
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.9378	GEN338513 1-BAILEY UNIT #1			
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28147	102.9376	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV	CKT 1		
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.9371	GEN335201 1-NELSON UNIT 1			
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28178	102.9363	MED-LDG5 345.00 345/138KV	TRANSFORMER	CKT 1	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28185	102.9358	MOORELAND - TALOGA	138KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28113	102.9348	CHLDRESS - HOLLIS TAP	138KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28100	102.934	8DANIEL 500.00 - MCKNIGHT	500KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.9299	GEN503900 1-FITZHUGH	CT1		
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28099	102.928	SPP-SWPS-T53			
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28207	102.9273	SWISSVALE - WEST GARDNER	345KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28110	102.927	NORTHEAST STATION - ONETA	345KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28235	102.926	GOLTRY - HELENAT2	69.000	69KV	CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.9252	GEN338510 1-151KNWRI			
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28116	102.9211	CLINTON NATURAL GAS TAP - WEATHERFORD	WIND FARM	138KV	CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28141	102.9203	ANDERSONCO 345.00 - WOLF CREEK	345KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28099	102.9195	CONWAY SUB - KIRBY SWITCHING	STATION	115KV	CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.9194	GEN509408 1-WILKES #2			
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28199	102.9191	OKEENE - WATONGA SW	69KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28113	102.9157	HOLLIS TAP - WELLINGTON	138KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.9151	GEN501910 1-ACADIA UNIT	ST1		
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.9139	GEN549893 2-SOUTHWEST 2			
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.9137	GEN335202 1-NELSON UNIT 2			
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28192	102.9114	PUTNAM - TALOGA	69KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.9106	GEN334374 1-COTTONWOOD/INTERGEN	UNIT 1		
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.909	GEN521129 1-BLUCANS 4	138.00		
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.9088	GEN338513 1-BAILEY UNIT #1			
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.9087	GEN506749 1-EASTMAN	GENERATION	A	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28148	102.9081	MCCOOL - MOORE	345KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.9063	GEN560169 1-G08-13	0.5750		
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28185	102.9058	MOORELAND - TALOGA	138KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28100	102.9058	8DANIEL 500.00 - MCKNIGHT	500KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28235	102.9053	GOLTRY - IMO	69KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28134	102.9044	JENSEN ROAD - JENSEN TAP	138KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28113	102.9044	CHLDRESS - HOLLIS TAP	138KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28147	102.9043	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00	230KV	CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.9011	GEN503900 1-FITZHUGH	CT1		
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28130	102.8983	RED WILLOW (R.WIL T1) 345/115/13.8KV	TRANSFORMER	CKT 1	
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28235	102.8974	GOLTRY - HELENAT2	69.000	69KV	CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8963	GEN338510 1-151KNWRI			
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28199	102.8911	OKEENE - WATONGA SW	69KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28111	102.8901	GERALD GENTLEMAN STATION - SWEETWATER	345KV	CKT 2	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28192	102.8875	HAMON BUTLER - PUTNAM	69KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28192	102.887	ARAPAHO - HAMON BUTLER	69KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8862	GEN335612 1-WILLOW GLENN	UNIT#2		
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28131	102.886	7OVERTON 345.00 - SIBLEY	345KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8859	GEN501910 1-ACADIA UNIT	ST1		
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8848	GEN335202 1-NELSON UNIT 2			
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8846	GEN549893 2-SOUTHWEST 2			
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28192	102.8834	PUTNAM - TALOGA	69KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8807	GEN521129 1-BLUCANS 4	138.00		
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28602	102.8799	G05-17T 345.00 - POTTER COUNTY	INTERCHANGE	345KV	CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8798	GEN506749 1-EASTMAN	GENERATION	A	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28192	102.8785	ARAPAHO - INDUSTRIAL PARK	69KV	CKT 1	
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8785	GEN337422 1-OUCHITA	STG1		
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8785	GEN337424 1-OUCHITA	STG2		

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8785	GEN337426 1-OUCHITA STG3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28148	102.8782	MCCOOL - MOORE 345KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8781	GEN560169 1-G08-13 0.5750
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28100	102.8779	CLARENDON - JERICO 69KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28235	102.8764	GOLTRY - IMO 69KV
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28100	102.876	JERICO - KIRBY SWITCHING STATION 115KV
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28100	102.875	JERICO (JERIC2WT) 115/69/14.4KV TRANSFORMER
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28134	102.8747	JENSEN ROAD - JENSEN TAP 138KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28130	102.8685	RED WILLOW (R.WIL T1) 345/115/13.8KV TRANSFORMER
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28388	102.864	MOREWOOD SW - RHWIND4 138.00
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28103	102.8614	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28194	102.8611	CIMARRON - EL RENO 138KV
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8603	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28192	102.8594	HAMON BUTLER - PUTNAM 69KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28111	102.8592	GERALD GENTLEMAN STATION - SWEETWATER 345KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28192	102.8589	ARAPAHO - HAMON BUTLER 69KV
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28109	102.8585	STEGALL - WAYSIDE 230KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28131	102.8579	TOVERTON 345.00 - SIBLEY 345KV
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8579	GEN335545 1-DOW AEP UNITS
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8572	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28132	102.8547	TOVERTON-TRF
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28162	102.8517	MARSHALL - WOODRING 138KV
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8511	GEN520811 1-ANADRK4
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28192	102.851	ARAPAHO - INDUSTRIAL PARK 69KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8495	GEN337422 1-OUCHITA STG1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8495	GEN337424 1-OUCHITA STG2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8495	GEN337426 1-OUCHITA STG3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28100	102.8481	CLARENDON - JERICO 69KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28100	102.8462	JERICO - KIRBY SWITCHING STATION 115KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28100	102.8453	JERICO (JERIC2WT) 115/69/14.4KV TRANSFORMER
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28162	102.8447	COTTONWOOD CREEK - MARSHALL 138KV
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8443	GEN337124 5-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28192	102.844	CORDELL - INDUSTRIAL PARK 69KV
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8421	GEN335137 C4-PPG
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28117	102.8402	BROOKLINE - MORGAN 345KV
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8378	GEN300003 1-THOMAS HILL UNIT 3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28388	102.8361	MOREWOOD SW - RHWIND4 138.00
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28160	102.8324	CANTON - TALOGA 69KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28103	102.8322	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28194	102.8321	CIMARRON - EL RENO 138KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8313	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8294	GEN300016 1-1G1GPDEL 18.000
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8294	GEN300017 1-1G2GPDEL 18.000
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28109	102.8287	STEGALL - WAYSIDE 230KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8286	GEN335545 1-DOW AEP UNITS
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28132	102.8264	TOVERTON-TRF
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8255	GEN511852 1-COMANCHE #2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28162	102.8239	MARSHALL - WOODRING 138KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8226	GEN520811 1-ANADRK4
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28162	102.8168	COTTONWOOD CREEK - MARSHALL 138KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28192	102.8163	CORDELL - INDUSTRIAL PARK 69KV
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.8152	GEN337124 5-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28095	102.8131	GEN511853 1-COMANCHE #3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28095	102.813	GEN335137 C4-PPG
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.28117	102.8118	BROOKLINE - MORGAN 345KV
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.28115	102.8114	OGE3TERM2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.8112	GEN334467 1-DUPONT UNIT#1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	102.8096	MORRISON - STILLWATER 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.8095	GEN500915 3-WESTERN KRAFT
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28107	102.8069	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8068	GEN300003 1-THOMAS HILL UNIT 3
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28160	102.8035	CANTON - TALOGA 69KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28160	102.8034	CANTON - OKEENE 69KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28115	102.8034	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28142	102.8005	WRTOD1104
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8001	GEN300016 1-1G1GPDEL 18.000
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8001	GEN300017 1-1G2GPDEL 18.000
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7971	GEN511852 1-COMANCHE #2
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.7948	GEN334335 1-TOLEDO BEND
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.7925	GEN334232 1-PELCNRD U1 13.800
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.7925	GEN334233 1-PELCNRD U2 13.800
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7847	GEN511853 1-COMANCHE #3
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28115	102.7846	OGE3TERM2
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28113	102.7827	MORRISON - STILLWATER 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	102.7827	CLINTON - MONTROSE 161KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7821	GEN334467 1-DUPONT UNIT#1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.781	GEN335546 3-DOW COGEN
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7804	GEN500915 3-WESTERN KRAFT
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28107	102.7782	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.777	GEN334298 1-CYPR U1 13.800
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.777	GEN334299 1-CYPR U2 13.800
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28213	102.7766	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	102.7752	KCPL-OPGD06A
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28115	102.7747	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28160	102.7745	CANTON - OKEENE 69KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28142	102.772	WRTOD1104
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28178	102.7685	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28102	102.7676	ELK CITY (ELKCTY-4) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	102.7674	KCPL-OPGD01A
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7656	GEN334335 1-TOLEDO BEND
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28074	102.7654	DBL-SPRVL-CO
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7633	GEN334232 1-PELCNRD U1 13.800
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7633	GEN334233 1-PELCNRD U2 13.800
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.7601	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.7601	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.27776	102.7599	SOONER - SPRING CREEK 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28106	102.7551	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28099	102.7541	CLINTON - MONTROSE 161KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7518	GEN335546 3-DOW COGEN
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.7495	GEN560118 1-G08-46 0.6900
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7478	GEN334298 1-CYPR U1 13.800
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7478	GEN334299 1-CYPR U2 13.800
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28213	102.747	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28099	102.7459	KCPL-OPGD06A
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.7452	GEN335644 1-EXXON UNITS
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	102.7447	HAWTHORN - NASHUA 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28178	102.7419	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28099	102.738	KCPL-OPGD01A
FDNS	02ALL		2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28102	102.7375	ELK CITY (ELKCTY-4) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.7368	GEN506753 1-LEBROCK GAS 2
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28138	102.7352	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28059	102.7347	NORTHEAST STATION - TULSA NORTH 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28095	102.7306	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28095	102.7306	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28143	102.7288	NINNES3 115.00 - PRATT 115KV
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28106	102.726	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28109	102.7233	A143
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28107	102.7229	MCELROY - STILLWATER 138KV
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28095	102.7208	GEN560118 1-G08-46 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28178	102.7191	CALUMET - WATONGA SW 69KV
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28099	102.7152	HAWTHORN - NASHUA 345KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28108	102.7109	7LUTESVIL 345.00 - 7ST FRAN 345.00 345KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28118	102.7095	EVANS ENERGY CENTER NORTH - MAIZE 4 138.00 138KV
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28138	102.7071	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28059	102.7057	NORTHEAST STATION - TULSA NORTH 345KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28143	102.7031	NINNES3 115.00 - ST JOHN 115KV
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28143	102.7003	NINNES3 115.00 - PRATT 115KV
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28074	102.6982	DBL-SPRVL-CO
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28178	102.6902	CALUMET - WATONGA SW 69KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.6664	GEN599891 1-OKLAUN
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.4335	BASE CASE
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28095	102.4033	BASE CASE
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.2627	GEN515389 1-TLGAWND1 34.500
FDNS	02ALL	2	11G	G11_019	TO->FROM	MATTHEWSON	345.00 - TATONGA7	345.00 345KV	1195	0.23181	102.223	MATTHEWSON 345.00 - TATONGA7 345.00 345KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	MATTHEWSON	345.00 - TATONGA7	345.00 345KV	1195	0.23181	102.223	MATTHEWSON 345.00 - TATONGA7 345.00 345KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28121	102.1715	GRAY CO 345.00 - HOLCOMB 345KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.1591	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.1542	GEN560140 1-G09-08 0.7000
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.1541	GEN539630 1-FLATRDG1 34.500
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.1526	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28087	102.1465	MAYFLOWER 500 - PLEASANT HILL 500KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.1381	GEN560235 1-G08-92 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.1367	GEN530639 01-HYSWNDG1 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28097	102.1363	BAXTER WILSON SES - RAY BRASWELL SES 500KV
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28095	102.1256	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.124	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28095	102.1225	GEN539630 1-FLATRDG1 34.500
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28121	102.1209	GRAY CO 345.00 - HOLCOMB 345KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.1199	GEN641089 2-ENERGY CENTER 2
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28095	102.1186	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.1154	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28085	102.1152	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.1128	GEN560694 1-G11-008-2 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.1108	GEN560695 1-G11-008-3 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.11	GEN560386 1-G10-029-1 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.11	GEN560387 1-G10-029-2 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.11	GEN560388 1-G10-029-3 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28095	102.107	GEN560235 1-G08-92 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28095	102.1054	GEN530639 01-HYSWNDG1 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28097	102.1049	BAXTER WILSON SES - RAY BRASWELL SES 500KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.1043	GEN560514 1-G04_014 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.1034	GEN560606 1-G07-11 0.5750
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28095	102.0885	GEN641089 2-ENERGY CENTER 2
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28095	102.0882	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28027	102.0879	HORSESHOE LAKE - SEMINOLE 345KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28027	102.0847	ARCADIA - HORSESHOE LAKE 345KV
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	1195	0.28085	102.0839	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	1195	0.28095	102.0832	BAXTER WILSON SES - PERRYVILLE 500KV

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.082	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.27911	102.0817	SOONER - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0814	GEN560694 1-G11-008-2 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0805	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0797	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0794	GEN560695 1-G11-008-3 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0787	GEN560386 1-G10-029-1 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0787	GEN560387 1-G10-029-2 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0787	GEN560388 1-G10-029-3 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0775	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.075	GEN515790 1-FPLWND2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0732	GEN560606 1-G07-11 0.5750
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.073	GEN560514 1-G04_014 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0694	GEN520922 1-SLEEPING 138.00
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28119	102.0667	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	102.0653	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28027	102.0571	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.27911	102.0551	SOONER - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28027	102.054	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0517	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0461	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.043	GEN515790 1-FPLWND2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0423	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0415	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0396	GEN531486 1-CNTRLPL2 34.500
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28260	102.0385	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0377	GEN520922 1-SLEEPING 138.00
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28119	102.0348	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28099	102.0336	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0289	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28126	102.0252	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0239	GEN522814 1-LUBBOCK POWER & LIGHT-MACKENZIE GEN
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0223	GEN524895 1-SAN JUAN MESA WIND GEN
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28107	102.0219	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0185	CENTER GEN TRANS 4 - SQUARE BUTTE 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0107	GEN560238 1-G10-09 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28072	102.01	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28072	102.0096	AI12
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0081	GEN531486 1-CNTRLPL2 34.500
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28127	102.0072	OGE3TERM7
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.006	GEN560356 1-G10-53 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0058	GEN560693 1-G11-008-1 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28260	102.0046	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28072	101.9996	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28070	101.9987	NORTHWEST (NORTW3T3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9974	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.9969	GEN515397 1-OUSPR1 34.500
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.9954	GEN560432 1-G08-124 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9944	GEN522814 1-LUBBOCK POWER & LIGHT-MACKENZIE GEN
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28126	101.9932	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.993	GEN524895 1-SAN JUAN MESA WIND GEN
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.9929	GEN560659 1-G07-38 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28151	101.9908	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28107	101.9892	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9876	CENTER GEN TRANS 4 - SQUARE BUTTE 230KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28086	101.9859	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.9833	GEN562035 1-G11-016 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.9796	GEN560238 1-G10-09 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28072	101.9781	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28072	101.9777	AI12
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28127	101.9751	OGE3TERM7
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.9742	GEN560356 1-G10-53 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.9739	GEN560693 1-G11-008-1 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.9706	GEN560549 1-G06-06 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28072	101.9676	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28070	101.9661	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27987	101.9658	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.9643	GEN515397 1-OUSPT1 34.500
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.9636	GEN560432 1-G08-124 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.9612	GEN560659 1-G07-38 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28151	101.9591	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28078	101.9569	CIMARRON (CIMARON2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28086	101.9541	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28126	101.9537	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28126	101.9531	NEWKIRKA - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27527	101.9524	MATTHEWSON 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.9516	GEN562035 1-G11-016 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28126	101.951	SPP-WERE-41B
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.9421	GEN523277 1-VALERO SUB
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28078	101.9403	CIMARRON (CIMARON1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.9392	GEN560549 1-G06-06 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27987	101.9339	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27527	101.9326	MATTHEWSON 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28078	101.9244	CIMARRON (CIMARON2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28126	101.9212	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28126	101.9207	NEWKIRKA - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.9185	GEN560209 1-G07-40 0.5750
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28126	101.9183	SPP-WERE-41B
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28103	101.916	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.9133	GEN523277 1-VALERO SUB
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28103	101.9099	AMRN_OUT55
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28078	101.9077	CIMARRON (CIMARON1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.9037	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.9031	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.8971	GEN560329 1-G10-45 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28068	101.8923	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.8918	GEN562032 1-G11-017 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.8873	GEN560209 1-G07-40 0.5750
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28127	101.8861	SPP-WERE-07B
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.8857	GEN560522 1-G05-12 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.8849	GEN515364 1-CENT 11 0.6000
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28103	101.8839	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.8795	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28103	101.8777	AMRN_OUT55
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.8743	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28063	101.8739	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.8737	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.8664	GEN560329 1-G10-45 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.86	GEN562032 1-G11-017 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28068	101.8589	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.854	GEN560522 1-G05-12 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28127	101.8529	SPP-WERE-07B



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.8512	GEN515364 1-CENT 11 0.6000
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.8505	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.8464	GEN524285 1-WILDORADO WIND GEN
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28063	101.8418	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.8371	GEN560170 1-G08-16 34.500
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.8302	GEN560595 1-G06-47 0.6000
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.8294	GEN560592 1-G06-45 0.6000
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27974	101.8258	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.8257	GEN515393 1-OGEWND2G
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.8179	GEN524285 1-WILDORADO WIND GEN
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.8079	GEN560170 1-G08-16 34.500
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.8014	GEN560595 1-G06-47 0.6000
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28103	101.8009	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.8005	GEN560592 1-G06-45 0.6000
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27974	101.7959	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.7928	GEN539677 3-A. M. MULLERGRN GENERATOR
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.7903	GEN515393 1-OGEWND2G
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.7774	GEN560180 1-G07-51 0.6000
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.776	GEN562014 1-G11-023 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28103	101.7683	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.7651	GEN560173 1-G08-17 0.5750
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.7599	GEN539677 3-A. M. MULLERGRN GENERATOR
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.7438	GEN562014 1-G11-023 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.7419	GEN560180 1-G07-51 0.6000
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.7342	GEN560173 1-G08-17 0.5750
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.7231	GEN560105 1-G08-22 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.7141	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28105	101.6993	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.6942	GEN560105 1-G08-22 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28070	101.6921	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27851	101.6871	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.6842	GEN531459 2-S2 GENERATOR
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.6834	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.6826	GEN560273 1-ASGI-10-11 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28105	101.6663	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28070	101.6584	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.6561	GEN560353 1-G10-52 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.6547	GEN560273 1-ASGI-10-11 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.6542	GEN531459 2-S2 GENERATOR
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27851	101.654	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.6252	GEN560353 1-G10-52 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.5531	GEN560221 1-G07-62-1 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.5531	GEN560222 1-G07-62-2 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.5531	GEN560223 1-G07-62-3 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.5531	GEN560224 1-G07-62-4 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28144	101.5383	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.5212	GEN560359 1-G08-51 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.5157	GEN560221 1-G07-62-1 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.5157	GEN560222 1-G07-62-2 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.5157	GEN560223 1-G07-62-3 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.5157	GEN560224 1-G07-62-4 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28144	101.5039	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.4981	GEN560584 1-G06-44-1 0.6000
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.4935	GEN560359 1-G08-51 0.6900
FDNS	02ALL		2 11G	G11_019	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.4722	GEN560187 1-G10-07 0.6900
FDNS	02ALL		2 11G	G11_019	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.4705	GEN560584 1-G06-44-1 0.6000

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.4664	GEN520997 1-MORLND2
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27950	101.4651	CLEVELAND - SOONER 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.454	GEN523926 1-MAJESTC_WND3115.00
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.4451	GEN560187 1-G10-07 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27950	101.4368	CLEVELAND - SOONER 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.4334	GEN560166 1-G07-48 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.4268	GEN523926 1-MAJESTC_WND3115.00
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.426	GEN560570 1-G06-39 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.4234	GEN520997 1-MORLND2
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.4056	GEN560166 1-G07-48 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.3983	GEN560570 1-G06-39 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.3962	GEN560279 1-G08-18 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.3775	GEN560429 1-G08-29 0.6400
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.365	GEN560279 1-G08-18 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.3408	GEN560429 1-G08-29 0.6400
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.2219	GEN523195 1-Hansford County Switch Station
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.2152	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.2152	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.2132	GEN562023 1-G11-020 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.2132	GEN562026 1-G11-019 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.1954	GEN523195 1-Hansford County Switch Station
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.1887	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.1887	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.1876	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.173	GEN560539 1-G05-17-2 34.500
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.1654	GEN562023 1-G11-020 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.1654	GEN562026 1-G11-019 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.1545	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.1466	GEN560539 1-G05-17-2 34.500
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28351	101.1226	G11-021T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28351	101.0897	G11-021T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.0409	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27799	101.032	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.0308	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.0081	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	100.9975	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27799	100.9958	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27572	100.9619	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	100.9589	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	100.9588	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	100.9567	GEN527165 1-Mustang GEN #5
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	100.9548	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27745	100.9439	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27572	100.9363	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	100.9314	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	100.9314	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	100.9293	GEN527165 1-Mustang GEN #5
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	100.9273	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27745	100.9074	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	100.8758	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	100.8665	GEN562049 1-G11-012 0.6900
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	100.8485	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	100.8413	GEN562049 1-G11-012 0.6900
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28602	100.7937	G05-17T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28602	100.7594	G05-17T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28189	100.7257	BORDER 7345.00 - Hitchland Interchange 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28351	100.714	2008-047T 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	100.7064	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	100.7064	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	100.6794	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	100.6794	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28351	100.6708	2008-047T 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28189	100.6673	BORDER 7345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27733	100.565	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27733	100.5338	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	100.392	GEN560536 1-G05-17-1 34.500
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	100.392	GEN560540 1-G05-17-3 34.500
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	100.3669	GEN560536 1-G05-17-1 34.500
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	100.3669	GEN560540 1-G05-17-3 34.500
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28351	100.2658	2008-047T 345.00 - G11-021T 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	100.2378	GEN560585 1-G06-44-2 0.6000
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	100.2135	GEN560585 1-G06-44-2 0.6000
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28351	100.2109	2008-047T 345.00 - G11-021T 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	100	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	100	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	03ALL	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21982	100.97	GEN336821 1-GRAND GULF UNIT
FDNS	03ALL	2	11G	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.20773	140.2344	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	03ALL	2	11G	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23225	122.7555	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	03ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29200	103.615	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29200	103.615	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29200	103.6141	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29200	103.6141	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	11G	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28385	100.3479	MINGO - SETAB 345KV CKT 1
FDNS	03ALL	2	11G	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28385	100.3311	MINGO - SETAB 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29308	114.4552	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29313	113.6909	LACYGNE - STILWELL 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29322	113.7151	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29502	115.5315	LACYGNE - NEOSHO 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29353	114.6851	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29350	114.9832	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	00NR	0	12WP	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.35060	110.7164	DBL-MEDLO-WI
FDNS	00NR	0	16WP	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.35084	110.4044	DBL-MEDLO-WI
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.1213	BASE CASE
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29308	113.8051	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29323	113.6365	FLINT CREEK - GRD1 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	113.7038	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29375	113.4193	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29395	113.7316	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29189	112.5043	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29408	114.6172	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29273	113.8148	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29672	113.1536	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29648	113.7365	DELAWARE - NEOSHO 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29354	112.8619	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29360	113.3525	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29459	114.5962	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29459	114.5859	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29449	114.5036	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29449	114.463	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29552	115.3156	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29552	115.2704	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.31477	124.409	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.31477	118.5942	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29702	115.7748	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29546	115.2822	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29466	114.8743	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29392	114.4948	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29459	114.7413	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	116.1995	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29392	114.5679	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29392	114.4641	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29392	114.6586	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29459	114.5442	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	115.114	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29418	114.4341	CHILDRESS - LAKE PAULINE 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29366	114.5014	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29268	113.7052	CLEVELAND - SOONER 345KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29644	114.9091	WAIKUMIS - WAIKUMIS TAP 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29644	114.942	HENESSEY - WAIKUMIS 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29427	114.607	MARSHALL - WOODRING 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30477	115.7888	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29608	114.651	G11-007T 345.00 - WOODRING 345KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29464	114.6567	KNOBHILL - SALINE 69KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29464	114.6554	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29464	114.5704	GOLTRY - IMO 69KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29464	114.5874	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29437	114.436	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29427	114.5985	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29458	113.7194	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29458	113.6576	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29398	113.7747	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29644	115.0167	DOVER SW - HENESSEY 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30042	117.0547	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30205	117.216	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.1336	GEN509406 1-WELSH #3
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4534	GEN509408 1-WILKES #2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.9181	GEN509409 1-WILKES #3
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.8488	GEN511836 1-NORTHEASTERN STATION #1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9388	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9388	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.662	GEN511839 1-NORTHEASTERN STATION #2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.6874	GEN511840 1-NORTHEASTERN STATION #3
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.7157	GEN511841 1-NORTHEASTERN STATION #4
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.5654	GEN511843 1-RIVERSIDE STATION #2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7224	GEN511851 1-COMANCHE #1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5474	GEN511852 1-COMANCHE #2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5484	GEN511853 1-COMANCHE #3
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7364	GEN511938 1-OEC STEAM # 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7674	GEN511953 G-COGENTRIX GAS # 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7668	GEN511954 S-COGENTRIX STEAM # 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.3837	GEN512688 2-GRDA1 GSU2 22
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.5192	GEN512689 1-GRDA1 GSU1 22
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.5565	GEN514805 1-SOONER UNIT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.8774	GEN514806 1-SOONER UNIT 2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.5867	GEN514899 1-REDBUD1S
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.5868	GEN514900 1-REDBUD2S
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0647	GEN514905 1-REDBUD3S
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.7967	GEN514910 2-REDBUD GEN

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.7967	GEN514911 2-REDBUD GEN
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9602	GEN514912 2-REDBUD GEN
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.6383	GEN514998 1-MCCLAIN UNIT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.6383	GEN514999 1-MCCLAIN UNIT 2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9006	GEN515000 1-MCCLAIN UNIT 3
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.1547	GEN515040 1-SEMINOLE 1G
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.9443	GEN515041 1-SEMINOLE 2G
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.2043	GEN515042 1-SEMINOLE 3G
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.2905	GEN515223 1-MUSKOGEE 4G
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.2416	GEN515225 1-MUSKOGEE 5G
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.7524	GEN515226 1-MUSKOGEE 6G
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.078	GEN515266 1-AES 1G
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.078	GEN515267 1-AES 2G
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.5388	GEN515364 1-CENT 11 0.6000
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.172	GEN515389 1-TLGAWND1 34.500
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.1909	GEN515393 1-OGEWND2G
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.8766	GEN515397 1-OUSPR1 34.500
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7705	GEN515443 1-MNCOWND1 34.500
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.0657	GEN515790 1-FPLWND2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7194	GEN520811 1-ANADRR4
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.781	GEN520812 1-ANADRK5
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7809	GEN520813 1-ANADRR6
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.1075	GEN520922 1-SLEEPING 138.00
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.3139	GEN520947 1-HUGO1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.3566	GEN520997 1-MORLND2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.642	GEN521129 1-BLUCANS 4 138.00
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.5395	GEN523103 1-NOBLE_WND 3115.00
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.3872	GEN523461 1-BLACKHAWK GEN #1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.3873	GEN523462 1-BLACKHAWK GEN #2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.9244	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.918	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.9184	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.734	GEN524285 1-WILDORADO WIND GEN
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.0331	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.0083	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.274	GEN527161 1-MUSTANG GEN #1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.274	GEN527162 1-MUSTANG GEN #2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.228	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.2729	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.2743	GEN527165 1-Mustang GEN #5
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.8071	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.9984	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.9984	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.5326	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.2877	GEN531447 1-HOLCOMB GENERATOR
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5403	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5395	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5338	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.0652	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.1752	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.8207	GEN539677 3-A. M. MULLERGEN GENERATOR
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6787	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7856	GEN541151 3-SIBLEY GENERATING UNIT #3
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.011	GEN542951 5-HAWTHORN UNIT #5
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4595	GEN542952 1-MONTROSE UNIT #1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.5406	GEN542955 1-LACYGNE UNIT #1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.4336	GEN542956 2-LACYGNE UNIT #2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0649	GEN542957 1-IATAN UNIT #1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.2854	GEN542962 2-IATAN UNIT #2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5618	GEN546702 1-NM GEN N1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0181	GEN547649 1-ASBURY UNIT #1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.8163	GEN547656 1-STATE LINE UNIT #2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.928	GEN549890 1-SOUTHWEST 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7473	GEN549893 2-SOUTHWEST 2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5248	GEN549899 5-JAMES RIVER 5
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6608	GEN560105 1-G08-22 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	107.6617	GEN560115 1-G08-44 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4638	GEN560118 1-G08-46 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.2783	GEN560121 1-G08-47 0.5750
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.1708	GEN560155 1-G10-11 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.4668	GEN560166 1-G07-48 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5217	GEN560169 1-G08-13 0.5750
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7491	GEN560170 1-G08-16 34.500
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6645	GEN560173 1-G08-17 0.5750
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	104.5443	GEN560175 1-G07-44 0.5750
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.9728	GEN560180 1-G07-51 0.6000
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.4188	GEN560190 1-G10-08 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.763	GEN560209 1-G07-40 0.5750
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.4861	GEN560221 1-G07-62-1 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.4861	GEN560222 1-G07-62-2 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.4861	GEN560223 1-G07-62-3 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.4861	GEN560224 1-G07-62-4 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.8154	GEN560238 1-G10-09 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6846	GEN560256 1-G10-14-1 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6753	GEN560257 1-G10-14-2 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.4086	GEN560279 1-G08-18 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	104.4901	GEN560282 1-G08-19 0.6000
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7041	GEN560286 1-G10-01-1WTG 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7041	GEN560287 1-G10-01-2WTG 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.851	GEN560323 1-G10-40 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7657	GEN560329 1-G10-45 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.5877	GEN560353 1-G10-52 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.4941	GEN560359 1-G08-51 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6793	GEN560371 1-G07-46 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	110.9812	GEN560429 1-G08-29 0.6400
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7621	GEN560522 1-G05-12 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.8201	GEN560549 1-G06-06 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.4534	GEN560570 1-G06-39 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.8112	GEN560585 1-G06-44-2 0.6000
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6787	GEN560586 1-G06-44-3 0.6000
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7236	GEN560592 1-G06-45 0.6000
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7243	GEN560595 1-G06-47 0.6000
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.3106	GEN560598 1-G06-49 0.6000
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.8054	GEN560623 1-ASGI-10-01 0.6000
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1445	GEN560636 1-ASGI-10-06 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1447	GEN560639 1-ASGI-10-07 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5357	GEN560645 1-ASGI-10-09 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	107.6814	GEN560648 1-G07-21 0.5750
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.7736	GEN560687 1-G11-007 0.5750
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	102.0997	GEN562010 1-G11-024 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6905	GEN562014 1-G11-023 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.3874	GEN562017 1-G11-022 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.3324	GEN562020 1-G11-021 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	109.0844	GEN562023 1-G11-020 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	109.0844	GEN562026 1-G11-019 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7775	GEN562032 1-G11-017 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.5485	GEN562042 1-G11-014 0.6900
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7239	GEN599891 1-OKLAUN
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.8845	GEN640009 1-COOPER NUCLEAR STATION
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.4734	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.5306	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5529	GEN645001 1-FORT CALHOUN 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6467	GEN645011 1-NEBRASKA CITY 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7373	GEN645012 2-NEBRASKA CITY 2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29480	114.5481	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29678	114.7186	DEWEY - IODINE 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30390	117.4708	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30042	117.1278	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30205	117.1937	IMO TAP - MEN TAP 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29488	115.1	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29678	114.7697	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29647	113.8046	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30390	120.129	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29443	114.6438	CIMARRON - EL RENO 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30390	117.1368	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.28800	110.4622	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.28049	112.2956	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29065	113.3083	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29608	116.8522	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29228	113.5231	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29228	113.5246	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29301	114.6167	MORRISON - STILLWATER 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29297	114.4568	KINZE - MCELROY 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29297	114.5001	MCELROY - STILLWATER 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29381	113.6992	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30141	116.1387	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.31641	121.7891	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.31641	121.7891	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29458	113.6579	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29480	114.9727	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	114.5399	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	114.5385	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29399	114.4261	CALUMET - WATONGA SW 69KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29380	114.4795	CANTON - OKEENE 69KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29380	114.5056	CANTON - TALOGA 69KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29873	116.477	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29873	116.4448	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29401	114.4986	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29401	114.5148	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	114.5113	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29811	115.945	DOVER SW - OKEENE 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	114.5405	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29401	114.4449	HYDRO - SICKLES 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29401	114.4739	HYDRO - WEATHERFORD 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29807	116.2509	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29546	115.0407	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29807	116.2406	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29424	114.5903	OKEENE - WATONGA SW 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	114.5591	PUTNAM - TALOGA 69KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29607	114.576	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	115.3655	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29504	115.305	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30213	118.4779	BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	115.114	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29366	114.5426	MCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29366	114.5625	KIRBY SWITCHING STATION - MCLELLAN SUB 115KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29607	115.0492	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	114.649	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29318	114.5227	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29329	114.6816	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.31477	117.8341	G08-14T 345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29350	114.6475	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29400	114.8553	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29715	117.4119	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29571	115.9472	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29400	115.2406	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29634	115.7051	HOLCOMB - SETAB 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29734	116.7124	MINGO - SETAB 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29787	116.7367	MINGO - RED WILLOW 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29947	117.1335	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29715	116.934	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29351	114.4219	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29359	114.5429	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29390	114.5486	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29824	114.9901	BENTON - ROSE HILL 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30106	116.2582	BENTON - WICHITA 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29473	115.1159	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29473	114.7245	LATHAM57 345.00 - ROSE HILL 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30336	113.5032	G08-127T 345.00 - ROSE HILL 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30477	113.7066	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30773	121.1079	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30773	121.1079	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29320	114.6488	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29473	114.9883	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29426	115.1601	CIRCLE - MULLERGREEN 230KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	115.0618	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29386	114.5356	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29412	115.1411	MULLERGREEN - SPEARVILLE 230KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29320	114.6899	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	113.704	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30477	115.0941	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30172	115.99	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29396	114.9918	AXTELL - PAULINE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29511	114.7956	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29323	114.5705	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29318	114.4376	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29343	114.4248	MCCOOL - MOORE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29343	114.5422	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29390	114.8958	MOORE - PAULINE 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29389	115.3222	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29313	113.8185	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29312	114.4524	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29318	114.4457	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29321	113.7259	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29332	113.4652	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29323	113.5597	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	116.2003	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29366	114.5003	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29488	115.0853	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29237	113.188	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29243	113.3841	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29335	114.5329	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29492	114.6808	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29410	113.6683	WWRDEHV7 345.00 (WWRDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29410	113.7651	WWRDEHV7 345.00 (WWRDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29348	114.4307	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	115.0265	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29358	114.5116	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29319	114.4389	CLINTON - MONTROSE 161KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29347	114.476	BROOKLINE - MORGAN 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.1866	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.1866	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29331	114.4211	RED WILLOW (R.WIL T1) 345/115/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29307	114.5694	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29328	113.6649	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29324	114.5594	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29316	114.4465	STEGALL - WAYSIDE 230KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7432	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29306	115.0068	DBL-COM-MEDL
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.35388	145.5011	DBL-MEDLO-WI
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29930	114.8759	DBL-HIT-G084
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.31666	115.5908	DBL-G0847-WO
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.37372	141.424	DBL-WOOD-MED
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29679	115.0008	OGE3TERM1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29306	114.6173	OGE3TERM2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29459	113.7005	OGE3TERM7
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	114.4506	OGE3TERM10
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29288	113.7901	OGE3TERM14
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	115.114	SPP-SWPS-02
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	114.71	SPP-SWPS-02A
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29366	114.4943	SPP-SWPS-T54
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	115.1427	SPP-MKEC-05
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	115.4092	SPP-MKEC-08
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29459	113.5877	SPP-WERE-07B
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	115.1457	SPP-WERE-34
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29458	113.6564	SPP-WERE-41B
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29352	115.0281	WRTOD400
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	113.7037	AI12
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29328	113.6599	AMRN_OUTS5
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29359	114.4852	OVERTON-TRF
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29313	114.6374	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4428	GEN300001 1-THOMAS HILL UNIT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6674	GEN300002 1-THOMAS HILL UNIT 2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.8784	GEN300003 1-THOMAS HILL UNIT 3
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.8189	GEN300006 1-NEW MADRID UNIT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.8133	GEN300007 1-NEW MADRID UNIT 2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6511	GEN300016 1-1G1GPDLE 18.000
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6511	GEN300017 1-1G2GPDLE 18.000
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7919	GEN300031 1-CHOUTEAU CTG 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7919	GEN300032 1-CHOUTEAU CTG 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1663	GEN318007 1-5MOROW161 161.00
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1482	GEN334030 1-FRONTIER UNIT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0454	GEN334031 1-FRONTIER UNIT 2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.616	GEN334070 1-LEWIS CREEK 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5595	GEN334232 1-PELCNRD U1 13.800
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5595	GEN334233 1-PELCNRD U2 13.800
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.45	GEN334282 1-SAM RAYBURN 4
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5481	GEN334298 1-CYPR U1 13.800
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5481	GEN334299 1-CYPR U2 13.800
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.562	GEN334335 1-TOLEDO BEND
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7492	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9665	GEN334392 1-EXXON MOBIL IPP 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.1387	GEN334440 1-SABINE UNIT 4
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.7266	GEN334441 1-SABINE UNIT 5
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.456	GEN334458 1-CONOCO UNIT#3
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5871	GEN334467 1-DUPONT UNIT#1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9924	GEN335075 1-DYNEGY#1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.032	GEN335076 1-DYNEGY UNIT2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6299	GEN335137 C4-PPG
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7812	GEN335201 1-NELSON UNIT 1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7191	GEN335202 1-NELSON UNIT 2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0557	GEN335203 1-NELSON UNIT 3
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.0157	GEN335204 1-NELSON UNIT 4
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.3449	GEN335206 1-NELSON UNIT 6
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6599	GEN335545 1-DOW AEP UNITS
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.563	GEN335546 3-DOW COGEN
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6624	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.695	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4341	GEN335640 1-ENCO
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.516	GEN335644 1-EXXON UNITS
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	120.3661	GEN335831 1-RIVERBEND UNIT#1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0363	GEN336167 1-GULF OXY U1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0363	GEN336168 1-GULF OXY U2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0363	GEN336169 1-GULF OXY U3
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.9326	GEN336170 1-GULF OXY U4
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5362	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5362	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	118.0841	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.7636	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	121.9255	GEN336821 1-GRAND GULF UNIT
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.5263	GEN336831 1-BAXTER WILSON SES
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0779	GEN337006 1-DUKE MCADAMS G1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0779	GEN337007 1-DUKE MCADAMS G2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0574	GEN337008 1-DUKE MCADAMS S1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.9677	GEN337041 1-GERALD ANDRUS
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6601	GEN337124 5-LS POWER BATESVILLE
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0913	GEN337125 6-LS POWER BATESVILLE
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0158	GEN337421 1-OUCHITA CTG1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6832	GEN337422 1-OUCHITA STG1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0158	GEN337423 1-OUCHITA CTG2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6832	GEN337424 1-OUCHITA STG2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0158	GEN337425 1-OUCHITA CTG3
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6832	GEN337426 1-OUCHITA STG3
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1295	GEN337428 1-PERYVILLE UNIT #1
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1022	GEN337429 1-PERYVILLE UNIT #2
FDNS	01NR	0	11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1295	GEN337430 1-PERYVILLE UNIT #3

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1022	GEN337432 1-PERYVILLE UNIT #5
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	118.9568	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	118.6065	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	119.7455	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	120.8549	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.835	GEN337954 1-LYNCH UNIT #3
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	118.6959	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	118.7654	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.9346	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9291	GEN338500 1-MCCLELLAN UNIT #1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7402	GEN338510 1-1S1KNWRI
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4283	GEN338511 1-1C7KNWRI
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7806	GEN338513 1-BAILEY UNIT #1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5746	GEN500915 3-WESTERN KRAFT
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	118.6482	GEN501801 1-DOLET HILLS UNIT1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.3869	GEN501812 1-RODEMACHER UNIT 2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.863	GEN501813 1-RODEMACHER UNIT 3
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1357	GEN501823 1-TECHE UNIT 3
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7222	GEN501910 1-ACADIA UNIT ST1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0218	GEN501911 1-ACADIA UNIT CT1A
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.714	GEN503900 1-FITZHUGH CT1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.2431	GEN505432 1-SIKESTON
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6794	GEN506749 1-EASTMAN GENERATION A
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4277	GEN506750 1-EASTMAN GENERATION B
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9501	GEN506752 1-LEBROCK GAS 1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4788	GEN506753 1-LEBROCK GAS 2
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1689	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1689	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1582	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.9357	GEN509394 1-FLINT CREEK
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.8826	GEN509403 1-PIRKEY GENERATION
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.1334	GEN509404 1-WELSH #1
FDNS	01NR		0 11G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.1335	GEN509405 1-WELSH #2
FDNS	00NR		2 12SP	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.30942	114.2931	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR		2 12SP	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.34809	100.4377	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00NR		2 12WP	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.28695	124.9704	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR		2 12WP	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.32454	111.1275	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00NR		2 12WP	G11_019	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.43312	100	DBL-MEDLO-WI
FDNS	00NR		2 12WP	G11_019	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.43312	100	DBL-MEDLO-WI
FDNS	00NR		2 16SP	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.30662	124.0189	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR		2 16SP	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.34169	108.3724	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00NR		2 16WP	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.28953	123.7113	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR		2 16WP	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.32873	110.9874	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01NR		2 11G	G11_019	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.29050	156.9428	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01NR		2 11G	G11_019	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.33065	138.8338	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01NR		2 11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.30343	117.8475	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01NR		2 11G	G11_019	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.30343	117.8475	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FNSL-Blown up	3		0 11G	G11_020		Non Converged Contingency	0	0.24413	-	DBL-MEDLO-WI
FNSL-Blown up	3		2 11G	G11_020		Non Converged Contingency	0	0.22121	-	DBL-MEDLO-WI
FNSL-Blown up	3		3 11G	G11_020		Non Converged Contingency	0	0.22099	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL		0 11G	G11_020		Non Converged Contingency	1195	0.22776	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	G11_020		Non Converged Contingency	1195	0.22776	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	G11_020		Non Converged Contingency	1195	0.22776	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	G11_020		Non Converged Contingency	0	0.24559	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL		0 11G	G11_020		Non Converged Contingency	0	0.22309	-	DBL-G0847-WO
FNSL-Blown up	01ALL		0 11G	G11_020		Non Converged Contingency	0	0.30084	-	DBL-WOOD-MED

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	02ALL		0 11G	G11_020		Non Converged Contingency	0	0.24026	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		0 11G	G11_020		Non Converged Contingency	1195	0.21982	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_020		Non Converged Contingency	1195	0.21982	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_020		Non Converged Contingency	1195	0.21982	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_020		Non Converged Contingency	1792	0.05687	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_020		Non Converged Contingency	1328	0.04744	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_020		Non Converged Contingency	1195	0.03899	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_020		Non Converged Contingency	1195	0.03899	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_020		Non Converged Contingency	0	0.22506	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		2 11G	G11_020		Non Converged Contingency	1195	0.27894	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_020		Non Converged Contingency	1195	0.03526	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_020		Non Converged Contingency	0	0.20412	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	G11_020		Non Converged Contingency	1792	0.28111	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_020		Non Converged Contingency	1195	0.03525	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_020		Non Converged Contingency	1195	0.03525	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_020		Non Converged Contingency	0	0.20394	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		4 11G	G11_020		Non Converged Contingency	1792	0.28094	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_020		Non Converged Contingency	1792	0.28094	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_020		Non Converged Contingency	1792	0.05247	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_020		Non Converged Contingency	1195	0.03452	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_020		Non Converged Contingency	1195	0.03452	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_020		Non Converged Contingency	1792	0.10133	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_020		Non Converged Contingency	1792	0.10133	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL		4 11G	G11_020		Non Converged Contingency	1195	0.03452	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_020		Non Converged Contingency	956	0.03398	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_020		Non Converged Contingency	0	0.20266	-	DBL-MEDLO-WI
FNSL	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	116.0234	GEN336153 1-WATERFORD UNIT#3
FNSL	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	145.8511	GEN336153 1-WATERFORD UNIT#3
FNSL	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22795	137.8051	NEB01WAPAB3
FNSL	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	121.1297	GEN336153 1-WATERFORD UNIT#3
FNSL	02ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22835	118.5073	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FNSL	02ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22835	111.0464	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FNSL	02ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22835	110.2866	G08-14T 345.00 - TUCCO INTERCHANGE 345KV CKT 1
FNSL	02ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22619	103.0766	MINGO - SETAB 345KV CKT 1
FNSL	02ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22687	103.0695	MINGO - RED WILLOW 345KV CKT 1
FNSL	02ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22627	103.0261	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL	02ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22627	102.5595	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FNSL	02ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.0113	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FNSL	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28074	102.7649	DBL-SPRVL-CO
FNSL	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28074	102.6977	DBL-SPRVL-CO
FNSL	03ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21982	100.2765	GEN336153 1-WATERFORD UNIT#3
FNSL	01NR		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	121.3534	GEN336153 1-WATERFORD UNIT#3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22655	109.116	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22662	108.3567	LACYGNE - STILWELL 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22670	108.3809	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22681	110.1708	LACYGNE - NEOSHO 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22737	109.34	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	109.6387	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22721	108.5244	BENTON - WOLF CREEK 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.28226	138.0853	DBL-MEDLO-WI
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30937	133.7625	DBL-WOOD-MED
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23550	118.5755	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	116.5963	GEN336821 1-GRAND GULF UNIT
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25066	115.8282	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25066	115.8282	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	115.5323	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24013	115.3817	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24013	115.3817	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	115.057	GEN335831 1-RIVERBEND UNIT#1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23510	114.5459	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	114.4333	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	113.659	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	113.4725	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	113.4033	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	113.3457	GEN501801 1-DOLET HILLS UNIT1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	113.3133	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23550	112.9962	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23945	112.92	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.7897	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.6781	GEN514806 1-SOONER UNIT 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.6755	GEN337041 1-GERALD ANDRUS
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.6407	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.5888	GEN509403 1-PIRKEY GENERATION
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.572	GEN515226 1-MUSKOGEE 6G
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.5604	GEN501813 1-RODEMACHER UNIT 3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.3479	GEN514805 1-SOONER UNIT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23550	112.2525	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.2284	GEN336831 1-BAXTER WILSON SES
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.0837	GEN515223 1-MUSKOGEE 4G
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.0833	GEN501812 1-RODEMACHER UNIT 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.0414	GEN335206 1-NELSON UNIT 6
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.033	GEN515225 1-MUSKOGEE 5G
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	112.004	GEN520947 1-HUGO1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23510	111.9278	DEWEY - SOUTHARD 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23156	111.8881	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.8328	GEN334440 1-SABINE UNIT 4
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.832	GEN509406 1-WELSH #3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.8319	GEN509405 1-WELSH #2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.8318	GEN509404 1-WELSH #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.7995	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.71	GEN335204 1-NELSON UNIT 4
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23374	111.6932	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23374	111.6716	IMO TAP - MEN TAP 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23247	111.6251	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.6209	GEN509394 1-FLINT CREEK
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23510	111.6027	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23229	111.5833	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23247	111.5508	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.4576	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23156	111.4231	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.4122	GEN334441 1-SABINE UNIT 5
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.3957	GEN511841 1-NORTHEASTERN STATION #4
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.3673	GEN511840 1-NORTHEASTERN STATION #3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.3416	GEN511839 1-NORTHEASTERN STATION #2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	111.253	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23227	111.1962	MINGO - RED WILLOW 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.1948	GEN512689 1-GRDA1 GSU1 22
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23156	111.1903	MINGO - SETAB 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	111.0569	GEN512688 2-GRDA1 GSU2 22
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23118	111.0239	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23118	110.9925	CEDARDALE - OKEENE 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.9616	GEN515042 1-SEMINOLE 3G

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.9279	GEN560687 1-G11-007 0.5750
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	110.8109	ELK CITY 230KV - SWEETW76 230.00 230KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23177	110.8108	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	110.8105	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23315	110.7995	BENTON - WICHITA 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23177	110.7991	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.6911	GEN515041 1-SEMINOLE 2G
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.6124	GEN336170 1-GULF OXY U4
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23844	110.6044	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.5979	GEN509409 1-WILKES #3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.5787	GEN515040 1-SEMINOLE 1G
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.5344	GEN514910 2-REDBUD GEN
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.5344	GEN514911 2-REDBUD GEN
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23031	110.5051	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.505	GEN300006 1-NEW MADRID UNIT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23066	110.5032	DOVER SW - OKEENE 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.4994	GEN300007 1-NEW MADRID UNIT 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23616	110.4301	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23061	110.4277	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.3698	GEN514998 1-MCCLAIN UNIT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.3698	GEN514999 1-MCCLAIN UNIT 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22892	110.36	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.3158	GEN514899 1-REDBUD1S
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.3158	GEN514900 1-REDBUD2S
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.2896	GEN334070 1-LEWIS CREEK 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.2476	GEN511843 1-RIVERSIDE STATION #2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.2453	GEN542955 1-LACYGNE UNIT #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23047	110.2434	HOLCOMB - SETAB 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	110.1387	GEN542956 2-LACYGNE UNIT #2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22836	110.0077	SPP-MKEC-08
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	110.0065	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.9999	GEN542962 2-IATAN UNIT #2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22706	109.9472	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22775	109.936	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22838	109.9337	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.9205	GEN505432 1-SIKESTON
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22916	109.902	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22838	109.8902	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8477	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8477	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22759	109.8424	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8388	GEN318007 1-SMOROW161 161.00
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.837	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8231	GEN334030 1-FRONTIER UNIT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8205	GEN560639 1-ASGI-10-07 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8204	GEN560636 1-ASGI-10-06 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8148	GEN501823 1-TECHE UNIT 3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8133	GEN337428 1-PERYVILLE UNIT #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.8133	GEN337430 1-PERYVILLE UNIT #3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7891	GEN515266 1-AES 1G
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7891	GEN515267 1-AES 2G
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7829	GEN337429 1-PERYVILLE UNIT #2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7829	GEN337432 1-PERYVILLE UNIT #5
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7746	GEN542957 1-IATAN UNIT #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7724	GEN514905 1-REDBUD3S
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22774	109.7714	CIRCLE - MULLERGEN 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.763	GEN337125 6-LS POWER BATESVILLE
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	109.7559	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	109.7559	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	109.7559	SPP-SWPS-02
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22836	109.7551	SPP-WERE-34
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22836	109.7523	SPP-MKEC-05
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22863	109.7513	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7497	GEN337006 1-DUKE MCADAMS G1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7497	GEN337007 1-DUKE MCADAMS G2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22787	109.7436	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23061	109.7359	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.734	GEN335203 1-NELSON UNIT 3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7289	GEN337008 1-DUKE MCADAMS S1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22816	109.7218	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7197	GEN334031 1-FRONTIER UNIT 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7166	GEN336167 1-GULF OXY U1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7166	GEN336168 1-GULF OXY U2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7166	GEN336169 1-GULF OXY U3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7096	GEN542951 5-HAWTHORN UNIT #5
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7085	GEN335076 1-DYNEGY UNIT2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22816	109.708	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.7002	GEN501911 1-ACADIA UNIT CT1A
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6955	GEN337421 1-OUCHITA CTG1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6955	GEN337423 1-OUCHITA CTG2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6955	GEN337425 1-OUCHITA CTG3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22836	109.6875	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6862	GEN547649 1-ASBURY UNIT #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22730	109.6839	WRTOD400
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6723	GEN334392 1-EXXON MOBIL IPP 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6685	GEN335075 1-DYNEGY#1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6637	GEN514912 2-REBUD GEN
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22916	109.6622	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23046	109.6421	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25791	109.6379	DBL-G0847-WO
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	109.6346	DOVER SW - HENESSEY 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22969	109.6331	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6268	GEN506752 1-LEBROCK GAS 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22863	109.6188	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6169	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6169	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	109.6155	AXTELL - PAULINE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22966	109.6141	OGE3TERM1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6074	GEN640009 1-COOPER NUCLEAR STATION
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.604	GEN338500 1-MCCLELLAN UNIT #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6009	GEN515000 1-MCCLELLAN UNIT 3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.6008	GEN549890 1-SOUTHWEST 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22824	109.5965	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23012	109.5859	BENTON - ROSE HILL 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	109.5597	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.5573	GEN300003 1-THOMAS HILL UNIT 3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22662	109.5512	DBL-COM-MEDL
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	109.5266	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.5259	GEN511836 1-NORTHEASTERN STATION #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.5198	GEN560323 1-G10-40 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22779	109.5141	MOORE - PAULINE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.5103	GEN337954 1-LYNCH UNIT #3

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.5044	GEN560623 1-ASGI-10-01 0.6000
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.5034	G11-007T 345.00 - WOODRING 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4942	GEN547656 1-STATE LINE UNIT #2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22789	109.4786	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4724	GEN541151 3-SIBLEY GENERATING UNIT #3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22759	109.4695	KNOLL 230 - SMOXYHL6 230.00 230KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4659	GEN300031 1-CHOUTEAU CTG 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4659	GEN300032 1-CHOUTEAU CTG 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4583	GEN520812 1-ANADRK5
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4582	GEN520813 1-ANADRK6
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4554	GEN338513 1-BAILEY UNIT #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4548	GEN335201 1-NELSON UNIT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4511	GEN645012 2-NEBRASKA CITY 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4425	GEN511953 G-COGENTRIX GAS # 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4421	GEN515443 1-MNCOWND1 34.500
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.442	GEN511954 S-COGENTRIX STEAM # 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4326	GEN599891 1-OKLAUN
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4241	GEN549893 2-SOUTHWEST 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4225	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4137	GEN338510 1-1S1KNWR1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4116	GEN511938 1-OEC STEAM # 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.4042	GEN511851 1-COMANCHE #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22973	109.3992	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3958	GEN501910 1-ACADIA UNIT ST1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23653	109.3945	DBL-HIT-G084
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.393	GEN335202 1-NELSON UNIT 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3901	GEN503900 1-FITZHUGH CT1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22909	109.3807	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22739	109.3737	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3695	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22715	109.3586	SPP-SWPS-02A
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3578	GEN520811 1-ANADRK4
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3569	GEN337422 1-OUCHITA STG1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3569	GEN337424 1-OUCHITA STG2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3569	GEN337426 1-OUCHITA STG3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3546	GEN506749 1-EASTMAN GENERATION A
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22863	109.3526	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3515	GEN645011 1-NEBRASKA CITY 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22973	109.3413	DEWEY - IODINE 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.339	GEN300002 1-THOMAS HILL UNIT 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22723	109.3383	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3359	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.334	GEN335545 1-DOW AEP UNITS
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3338	GEN337124 5-LS POWER BATESVILLE
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22594	109.3329	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22700	109.3301	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3252	GEN300016 1-1G1GPDEL 18.000
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3251	GEN300017 1-1G2GPDEL 18.000
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3182	GEN521129 1-BLUCANS 4 138.00
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.3031	PUTNAM - TALOGA 69KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.3029	GEN335137 C4-PPG
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	109.3023	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22797	109.2994	KNOBHILL - SALINE 69KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22723	109.295	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22678	109.2945	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22797	109.2902	HELENAT2 69.000 - SALINE 69KV CKT 1



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22770	109.2895	CIMARRON - EL RENO 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.2844	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.284	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.2828	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22696	109.2771	OGE3TERM2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22716	109.2769	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22693	109.2744	MORRISON - STILLWATER 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22690	109.2701	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23046	109.2673	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22750	109.2592	MARSHALL - WOODRING 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2589	GEN334467 1-DUPONT UNIT#1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.2554	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2524	GEN645001 1-FORT CALHOUN 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22750	109.2507	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2482	GEN500915 3-WESTERN KRAFT
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2422	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2411	GEN546702 1-NM GEN N1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2409	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22768	109.2368	OKEENE - WATONGA SW 69KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2356	GEN335546 3-DOW COGEN
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2337	GEN334232 1-PELGNRD U1 13.800
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2337	GEN334233 1-PELGNRD U2 13.800
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2335	GEN334335 1-TOLEDO BEND
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.232	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22739	109.2309	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22678	109.2283	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2245	GEN511853 1-COMANCHE #3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22797	109.2233	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22698	109.2216	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22692	109.2208	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22739	109.2207	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2202	GEN334298 1-CYPR U1 13.800
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2202	GEN334299 1-CYPR U2 13.800
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2199	GEN511852 1-COMANCHE #2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2149	GEN560645 1-ASGI-10-09 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	109.2124	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22693	109.2121	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2084	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2084	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22797	109.2066	GOLTRY - IMO 69KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.2033	GEN549899 5-JAMES RIVER 5
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22698	109.2031	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22774	109.1961	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1944	GEN560169 1-G08-13 0.5750
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22824	109.1912	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22719	109.1909	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1875	GEN335644 1-EXXON UNITS
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22682	109.1865	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22739	109.1804	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	109.1731	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22797	109.1727	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22969	109.1697	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22706	109.1659	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	109.1648	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22740	109.1634	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	109.1625	CORDELL - GOTEBO 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22698	109.1625	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22686	109.1614	MCELROY - STILLWATER 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22698	109.1533	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1522	GEN506753 1-LEBROCK GAS 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22731	109.1507	CANTON - TALOGA 69KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22740	109.1472	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22698	109.1472	SPP-SWPS-T54
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22760	109.1447	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22707	109.1396	VERTON-TRF
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	109.1395	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1354	GEN560118 1-G08-46 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22694	109.1299	BROOKLINE - MORGAN 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1296	GEN542952 1-MONTROSE UNIT #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1287	GEN334458 1-CONOCO UNIT#3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22731	109.1241	CANTON - OKEENE 69KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22740	109.1225	HYDRO - WEATHERFORD 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1225	GEN334282 1-SAM RAYBURN 4
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1199	GEN300001 1-THOMAS HILL UNIT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22686	109.1198	KINZE - MCELROY 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1197	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.119	GEN509408 1-WILKES #2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	109.1149	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22684	109.1111	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1105	GEN542954 3-MONTROSE UNIT #3
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1069	GEN335640 1-ENCO
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22691	109.1035	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22685	109.1032	STEGALL - WAYSIDE 230KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22760	109.1026	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.1004	GEN506750 1-EASTMAN GENERATION B
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	109.0992	GEN338511 1-1C7KNWRI
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22677	109.097	CLINTON - MONTROSE 161KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22687	109.0952	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22740	109.0938	HYDRO - SICKLES 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	109.093	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22719	109.0919	CHILDRESS - LAKE PAULINE 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22766	109.0901	OGE3TERM10
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22748	109.0748	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.7926	BASE CASE
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22666	108.503	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.5006	GEN539677 3-A. M. MULLERGEN GENERATOR
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4989	GEN560549 1-G06-06 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4934	GEN560238 1-G10-09 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4885	GEN560585 1-G06-44-2 0.6000
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4869	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22608	108.4836	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4802	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22894	108.4683	G08-127T 345.00 - SOONER 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22677	108.4672	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4581	GEN562032 1-G11-017 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22660	108.4568	OGE3TERM14
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.446	GEN560329 1-G10-45 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22616	108.4432	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.443	GEN560209 1-G07-40 0.5750
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4427	GEN560522 1-G05-12 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4327	GEN560170 1-G08-16 34.500
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22699	108.4313	KILDARE4 - WHITE EAGLE 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22760	108.4213	WWRDEHV7 345.00 (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.417	GEN524285 1-WILDORADO WIND GEN
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4151	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4078	GEN560595 1-G06-47 0.6000
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.4072	GEN560592 1-G06-45 0.6000
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22667	108.3881	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22686	108.3863	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3835	GEN560286 1-G10-01-1WTG 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3835	GEN560287 1-G10-01-2WTG 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	108.3827	DELAWARE - NEOSHO 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22605	108.3799	CLEVELAND - SOONER 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	108.3751	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3729	GEN562014 1-G11-023 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22660	108.3679	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22660	108.3675	AI12
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22660	108.3671	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22587	108.3669	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3659	GEN560256 1-G10-14-1 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3636	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3612	GEN560371 1-G07-46 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3597	GEN560586 1-G06-44-3 0.6000
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3569	GEN560257 1-G10-14-2 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22711	108.353	OGE3TERM7
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3487	GEN560173 1-G08-17 0.5750
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.3476	GEN560105 1-G08-22 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23061	108.3413	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22761	108.331	WWRDEHV7 345.00 (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22681	108.3278	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22681	108.3229	AMRN_OUT55
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	108.3105	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	108.3103	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22710	108.3092	SPP-WERE-41B
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22649	108.3019	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.274	GEN560353 1-G10-52 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.2415	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22711	108.2384	SPP-WERE-07B
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.2311	GEN562042 1-G11-014 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.2251	GEN523103 1-NOBLE_WND 3115.00
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22681	108.2221	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22564	108.1933	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22564	108.1895	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.1886	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.184	GEN560359 1-G08-51 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.1601	GEN560166 1-G07-48 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.1467	GEN560570 1-G06-39 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22683	108.1291	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22894	108.1041	G08-127T 345.00 - ROSE HILL 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.1023	GEN560190 1-G10-08 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.1005	GEN560279 1-G08-18 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22654	108.0833	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.0786	GEN523462 1-BLACKHAWK GEN #2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.0785	GEN523461 1-BLACKHAWK GEN #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.0767	GEN562017 1-G11-022 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22628	108.0735	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22477	108.0463	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.0227	GEN562020 1-G11-021 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.0173	GEN520997 1-MORLND2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22513	108.0043	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	108.0042	GEN560598 1-G06-49 0.6000
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.9728	GEN527165 1-Mustang Gen #5
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.9726	GEN527161 1-MUSTANG GEN #1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.9726	GEN527162 1-MUSTANG GEN #2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.9715	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.9649	GEN560121 1-G08-47 0.5750
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.9281	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.8781	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22624	107.868	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.8658	GEN515389 1-TLGAWND1 34.500
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.8535	GEN560155 1-G10-11 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.8091	GEN520922 1-SLEEPING 138.00
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22737	107.7977	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.7619	GEN515790 1-FPLWND2
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.7125	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.7125	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.5769	GEN515397 1-OUSPR1 34.500
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22389	107.5602	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.2644	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	107.2484	GEN515364 1-CENT 11 0.6000
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22366	107.2376	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21953	107.1475	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.9057	GEN515393 1-OGEWND2G
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.7804	GEN525561 1-TOLK GEN #1 24 KV
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.6947	GEN560180 1-G07-51 0.6000
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.6592	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.6533	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.653	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.2179	GEN560221 1-G07-62-1 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.2179	GEN560222 1-G07-62-2 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.2179	GEN560223 1-G07-62-3 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.2179	GEN560224 1-G07-62-4 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	106.0553	GEN531447 1-HOLCOMB GENERATOR
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	105.7761	GEN525562 1-TOLK GEN #2 24 KV
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	105.7355	GEN560429 1-G08-29 0.6400
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21958	105.0826	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	104.8044	GEN562023 1-G11-020 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	104.8044	GEN562026 1-G11-019 0.6900
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	102.431	GEN560648 1-G07-21 0.5750
FDNS	1		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22673	102.425	GEN560115 1-G08-44 0.6900
FDNS	1		2 11G	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.21322	148.6063	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	1		2 11G	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.21323	148.6019	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	1		2 11G	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23861	131.1941	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	1		2 11G	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23862	131.1907	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	1		2 11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.23704	112.7156	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	1		2 11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23704	112.7156	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	1		2 11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.23704	112.713	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	1		2 11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23704	112.713	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	2		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.27715	116.9574	DBL-MEDLO-WI
FDNS	2		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30451	105.8729	DBL-WOOD-MED
FDNS	2		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22995	101.7229	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.34509	121.0025	DBL-MEDLO-WI
FDNS	2		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.34509	121.0023	DBL-MEDLO-WI
FDNS	2		2 11G	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.20922	118.4226	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	2		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.37683	107.3592	DBL-WOOD-MED
FDNS	2		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.37683	107.3592	DBL-WOOD-MED
FDNS	2		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28906	105.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28906	105.0432	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		2 11G	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23387	104.974	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	3		2 11G	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.20927	127.0523	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	3		2 11G	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23417	111.2313	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22765	136.3785	LACYGNE - STILWELL 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22774	136.4528	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22791	138.4028	LACYGNE - NEOSHO 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22840	137.5417	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22831	137.9121	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23655	151.5356	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25152	150.1586	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25152	150.1586	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23618	147.2281	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24106	147.1828	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24106	147.1828	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	146.5581	GEN336821 1-GRAND GULF UNIT
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	145.196	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	144.5831	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	143.7912	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24054	143.6584	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23655	143.3309	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	142.8176	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	142.3999	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	142.3551	GEN501801 1-DOLET HILLS UNIT1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23250	142.3361	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23655	142.3323	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23476	142.0662	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23476	142.0287	IMO TAP - MEN TAP 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23324	141.9766	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23618	141.924	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23349	141.8619	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23349	141.7372	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.7259	GEN514806 1-SOONER UNIT 2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.6643	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23250	141.6308	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23317	141.5823	MINGO - RED WILLOW 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.5734	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.5335	GEN337041 1-GERALD ANDRUS
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23248	141.5092	MINGO - SETAB 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23618	141.4891	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.4261	GEN501813 1-RODEMACHER UNIT 3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.4193	GEN514805 1-SOONER UNIT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.3439	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	141.1923	GEN509403 1-PIRKEY GENERATION
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23297	141.1805	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23297	141.1429	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23950	141.0633	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.9721	GEN336831 1-BAXTER WILSON SES
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23711	140.9176	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.8378	GEN501812 1-RODEMACHER UNIT 2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.7942	GEN515040 1-SEMINOLE 1G
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.7903	GEN335206 1-NELSON UNIT 6
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.7646	GEN515223 1-MUSKOGEE 4G

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.7313	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.7052	GEN515225 1-MUSKOGEE 5G
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23221	140.6306	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23221	140.5783	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.5397	GEN520947 1-HUGO1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.5347	GEN334440 1-SABINE UNIT 4
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.3822	GEN335204 1-NELSON UNIT 4
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.3324	GEN509406 1-WELSH #3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.3323	GEN509405 1-WELSH #2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.3322	GEN509404 1-WELSH #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.1561	GEN509394 1-FLINT CREEK
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.0507	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23417	140.0272	BENTON - WICHITA 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	140.025	GEN334441 1-SABINE UNIT 5
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.9662	GEN560687 1-G11-007 0.5750
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23126	139.9226	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.8921	GEN511841 1-NORTHEASTERN STATION #4
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.8588	GEN511840 1-NORTHEASTERN STATION #3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.8275	GEN511839 1-NORTHEASTERN STATION #2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	139.7792	ELK CITY 230KV - SWEETW16 230.00 230KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	139.7761	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23142	139.7487	HOLCOMB - SETAB 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23168	139.672	DOVER SW - OKEENE 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.6073	GEN512689 1-GRDA1 GSU1 22
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22879	139.5894	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.554	GEN512688 2-GRDA1 GSU2 22
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.3788	GEN515042 1-SEMINOLE 3G
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23020	139.3548	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23760	139.221	DBL-HIT-G084
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23760	139.221	DBL-HIT-G084
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.0677	GEN515041 1-SEMINOLE 2G
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	139.0664	GEN336170 1-GULF OXY U4
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23027	139.0093	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.952	GEN300006 1-NEW MADRID UNIT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.9468	GEN300007 1-NEW MADRID UNIT 2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.9326	GEN509409 1-WILKES #3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.9295	GEN514910 2-REDBUD GEN
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.9295	GEN514911 2-REDBUD GEN
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.7535	GEN514998 1-MCCLAIN UNIT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.7535	GEN514999 1-MCCLAIN UNIT 2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.6989	GEN542955 1-LACYGNE UNIT #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	138.6956	SPP-MKEC-08
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.6831	GEN334070 1-LEWIS CREEK 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22860	138.6762	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.6743	GEN514900 1-REDBUD25
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.6742	GEN514899 1-REDBUD15
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23027	138.6681	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23067	138.6508	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22876	138.6144	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.5563	GEN542956 2-LACYGNE UNIT #2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.52	GEN511843 1-RIVERSIDE STATION #2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23153	138.4883	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22876	138.475	CIRCLE - MULLERGEN 230KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22918	138.4725	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	138.466	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22926	138.4648	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22887	138.4623	MULLERGREY - SPEARVILLE 230KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23067	138.4574	OGE3TERM1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23187	138.4364	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22815	138.434	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.4304	GEN542962 2-IATAN UNIT #2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22918	138.4294	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23039	138.4205	DOVER SW - HENESSEY 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22926	138.4087	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23039	138.3323	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23039	138.314	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	138.2959	SPP-WERE-34
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	138.2575	SPP-MKEC-05
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.2507	GEN505432 1-SIKESTON
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23006	138.1988	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22889	138.1836	AXTELL - PAULINE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.1449	GEN318007 1-5MORROW161 161.00
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	138.1333	STLN-DEMARC6230.00 - SWEETW6 230.00 230KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	138.1333	SPP-SWPS-02
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	138.1333	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23118	138.1232	BENTON - ROSE HILL 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.1161	GEN560639 1-ASGI-10-07 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.1158	GEN560636 1-ASGI-10-06 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.1156	GEN334030 1-FRONTIER UNIT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.1151	GEN542957 1-IATAN UNIT #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.1142	GEN501823 1-TECHE UNIT 3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22860	138.096	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22938	138.0907	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0849	GEN337428 1-PERYVILLE UNIT #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0849	GEN337430 1-PERYVILLE UNIT #3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22964	138.0816	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0742	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0742	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22894	138.0723	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0622	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0594	GEN515266 1-AES 1G
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0594	GEN515267 1-AES 2G
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0582	GEN337125 6-LS POWER BATESVILLE
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0528	GEN337429 1-PERYVILLE UNIT #2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0528	GEN337432 1-PERYVILLE UNIT #5
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0486	GEN514905 1-REDBUD3S
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0414	GEN337006 1-DUKE MCADAMS G1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0414	GEN337007 1-DUKE MCADAMS G2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22880	138.0364	MOORE - PAULINE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0361	GEN542951 5-HAWTHORN UNIT #5
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0162	GEN337008 1-DUKE MCADAMS S1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	138.0126	GEN335203 1-NELSON UNIT 3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23067	137.9989	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22964	137.9987	G05-13T 345.00 - LATHAMS7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9835	GEN334031 1-FRONTIER UNIT 2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9802	GEN336167 1-GULF OXY U1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9802	GEN336168 1-GULF OXY U2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9802	GEN336169 1-GULF OXY U3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9774	GEN520811 1-ANADRK4
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.975	GEN501911 1-ACADIA UNIT CT1A
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9719	GEN335076 1-DYNEGY UNIT2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22834	137.9689	WRTOD400

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9546	GEN337421 1-OUCHITA CTG1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9546	GEN337423 1-OUCHITA CTG2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9546	GEN337425 1-OUCHITA CTG3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9511	GEN547649 1-ASBURY UNIT #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23153	137.9429	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9402	GEN334392 1-EXXON MOBIL IPP 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.9251	GEN335075 1-DYNEGY#1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8581	GEN338500 1-MCCLELLAN UNIT #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8578	GEN515000 1-MCLLAIN UNIT 3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22830	137.8366	SPP-SWPS-02A
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8337	GEN300003 1-THOMAS HILL UNIT 3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8314	GEN549890 1-SOUTHWEST 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8195	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8195	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.8147	GEN506752 1-LEBROCK GAS 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22795	137.8029	STEGALL - STEGALL TRANSFORMER 230KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22795	137.8022	TRF-STEGALL
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22824	137.774	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22899	137.7703	KNOBHILL - SALINE 69KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22861	137.7691	PUTNAM - TALOGA 69KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22964	137.7685	LATHAM57 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22899	137.7392	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.739	GEN337954 1-LYNCH UNIT #3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22870	137.7371	CIMARRON - EL RENO 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23187	137.7367	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22895	137.7335	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22861	137.7328	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22861	137.7228	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22861	137.7208	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.7176	GEN511836 1-NORTHEASTERN STATION #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.7112	GEN541151 3-SIBLEY GENERATING UNIT #3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.7018	GEN547656 1-STATE LINE UNIT #2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22824	137.6949	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6894	GEN300031 1-CHOUTEAU CTG 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6894	GEN300032 1-CHOUTEAU CTG 2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22716	137.688	CIMARRON - MINCO 7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6867	GEN338513 1-BAILEY UNIT #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22861	137.6797	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22803	137.677	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6693	GEN335201 1-NELSON UNIT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22818	137.6674	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6514	GEN515443 1-MNCOWND1 34.500
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6514	GEN549893 2-SOUTHWEST 2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22899	137.647	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22899	137.6344	GOLTRY - IMO 69KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6322	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6241	GEN338510 1-1S1KNWRI
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.617	GEN511953 G-COGENTRIX GAS # 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6163	GEN511954 S-COGENTRIX STEAM # 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6075	GEN501910 1-ACADIA UNIT ST1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6065	GEN520812 1-ANADRK5
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.6064	GEN520813 1-ANADRK6
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5893	GEN335202 1-NELSON UNIT 2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5847	GEN511938 1-OEC STEAM # 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22871	137.5761	OKEENE - WATONGA SW 69KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5728	GEN335612 1-WILLOW GLENN UNIT#2



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22866	137.5674	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22823	137.5639	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5616	GEN503900 1-FITZHUGH CT1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.549	GEN337422 1-OUCHITA STG1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.549	GEN337424 1-OUCHITA STG2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.549	GEN337426 1-OUCHITA STG3
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5476	GEN511851 1-COMANCHE #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22866	137.5473	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.542	GEN337124 5-LS POWER BATESVILLE
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.533	GEN300016 1-1G1GPDEL 18.000
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.533	GEN300017 1-1G2GPDEL 18.000
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5241	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.5213	GEN335545 1-DOW AEP UNITS
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.515	GEN506749 1-EASTMAN GENERATION A
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22781	137.4901	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.4831	GEN335137 C4-PPG
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.4668	GEN521129 1-BLUCANS 4 138.00
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23077	137.4522	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22801	137.4469	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22854	137.4432	MARSHALL - WOODRING 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22854	137.433	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.4235	GEN599891 1-OKLAUN
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22876	137.3704	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	137.1944	GEN560603 1-G07-06 0.6000
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.9556	DIVCAPS4 138.00 138KV SWITCHED SHUNT
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.9556	DIVCAPS4 138.00 - DIVISION AVE 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.9506	MEMCAPS4 138.00 138KV SWITCHED SHUNT
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.9506	MEMCAPS4 138.00 - MEMORIAL 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.9106	BASE CASE
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22716	136.7343	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22780	136.6962	ARCADIA (ARCADIA3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22780	136.6841	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22337	136.6393	NORTHWEST - SPRING CREEK 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22337	136.633	SOONER - SPRING CREEK 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22712	136.5199	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22864	136.4631	WWRDEHV7 345.00 (WVDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22864	136.4559	WWRDEHV7 345.00 (WVDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22790	136.4548	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22815	136.4471	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22816	136.4164	OGE3TERM7
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22708	136.4155	CLEVELAND - SOONER 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23187	136.391	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22815	136.3807	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22815	136.3792	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22815	136.3703	SPP-WERE-41B
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22784	136.3689	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22784	136.3629	AMRN_OUT55
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22765	136.3623	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22765	136.3618	AI12
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22765	136.358	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22838	136.3513	DELAWARE - NEOSHO 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.3474	GEN562014 1-G11-023 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23017	136.3292	G08-127T 345.00 - SOONER 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.3269	GEN560586 1-G06-44-3 0.6000
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.3258	GEN560256 1-G10-14-1 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.3179	GEN560371 1-G07-46 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22752	136.314	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.3082	GEN560257 1-G10-14-2 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.303	GEN560173 1-G08-17 0.5750
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.2985	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22816	136.2923	SPP-WERE-07B
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.2825	GEN560105 1-G08-22 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22662	136.2653	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22692	136.2597	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22662	136.2563	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22784	136.2529	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.191	GEN560353 1-G10-52 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.1718	GEN562042 1-G11-014 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22786	136.1405	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.1396	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.1261	GEN523103 1-NOBLE_WND 3115.00
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22612	136.1213	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.1071	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22730	136.0831	NORTHWEST (NORTW3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22759	136.0715	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.0604	GEN560359 1-G08-51 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.0541	GEN520997 1-MORLND2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.0264	GEN560166 1-G07-48 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	136.0068	GEN560570 1-G06-39 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23017	135.9813	G08-127T 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.9606	GEN523461 1-BLACKHAWK GEN #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.9606	GEN523462 1-BLACKHAWK GEN #2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.9589	GEN560279 1-G08-18 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.938	GEN562017 1-G11-022 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8798	GEN560121 1-G08-47 0.5750
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8647	GEN562020 1-G11-021 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22726	135.8532	NORTHWEST (NORTW2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8255	GEN527165 1-Mustang Gen #5
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8244	GEN560598 1-G06-49 0.6000
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8242	GEN527162 1-MUSTANG GEN #2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8242	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.8241	GEN527161 1-MUSTANG GEN #1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.7668	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22586	135.7208	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22848	135.7159	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.6349	GEN560190 1-G10-08 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.6204	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23568	135.5628	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.5464	GEN560155 1-G10-11 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23568	135.5094	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.4037	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.4037	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22048	135.3033	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22497	135.1865	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.1832	GEN515389 1-TLGAWND1 34.500
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	135.0562	GEN520922 1-SLEEPING 138.00
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.9893	GEN515790 1-FPLWND2
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.8267	GEN515397 1-OUSPRT 1 34.500
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.7865	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22477	134.7534	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.1759	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.1452	GEN515364 1-CENT 11 0.6000

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.1256	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.1181	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	134.1177	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	133.6046	GEN515393 1-OGEWND2G
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	133.2455	GEN531447 1-HOLCOMB GENERATOR
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	133.1732	GEN560180 1-G07-51 0.6000
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	133.0425	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22049	132.998	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	132.5575	GEN560221 1-G07-62-1 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	132.5575	GEN560222 1-G07-62-2 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	132.5575	GEN560223 1-G07-62-3 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	132.5575	GEN560224 1-G07-62-4 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	131.6145	GEN560429 1-G08-29 0.6400
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	131.3771	GEN560225 1-G10-43 18.000
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	130.4681	GEN562023 1-G11-020 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	130.4681	GEN562026 1-G11-019 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	127.56	GEN560648 1-G07-21 0.5750
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	127.1085	GEN560115 1-G08-44 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	123.153	GEN560175 1-G07-44 0.5750
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	122.9438	GEN562010 1-G11-024 0.6900
FDNS	01ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	122.794	GEN560282 1-G08-19 0.6000
FDNS	01ALL		2 11G	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.21565	175.8627	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01ALL		2 11G	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.21565	175.8591	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01ALL		2 11G	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.24111	156.053	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL		2 11G	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.24111	156.0502	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL		2 11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.23798	141.2474	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		2 11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23798	141.2474	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	01ALL		2 11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.23798	141.2377	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		2 11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23798	141.2377	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22685	114.247	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22693	113.4767	LACYGNE - STILWELL 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22701	113.5075	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22714	115.288	LACYGNE - NEOSHO 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22767	114.4782	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22758	114.7747	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.28249	146.2183	DBL-MEDLO-WI
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30957	142.312	DBL-WOOD-MED
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23584	124.2109	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25093	121.8165	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25093	121.8165	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	121.6985	GEN336821 1-GRAND GULF UNIT
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24042	121.0606	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24042	121.0606	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	120.655	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	120.1744	GEN335831 1-RIVERBEND UNIT#1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23542	120.0256	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	119.5572	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	118.7679	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	118.5789	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	118.5106	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	118.458	GEN501801 1-DOLET HILLS UNIT1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23584	118.436	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	118.4266	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23977	118.3937	BORDER 7345.00 - TUCC INTERCHANGE 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.8848	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.832	GEN514806 1-SOONER UNIT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.7726	GEN337041 1-GERALD ANDRUS
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.7502	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.7018	GEN515226 1-MUSKOGEE 6G
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23584	117.6932	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.6774	GEN501813 1-RODEMACHER UNIT 3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.6643	GEN509403 1-PIRKEY GENERATION
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.5061	GEN514805 1-SOONER UNIT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.3364	GEN336831 1-BAXTER WILSON SES
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23542	117.3354	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23185	117.2897	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.2185	GEN515223 1-MUSKOGEE 4G
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.2007	GEN501812 1-RODEMACHER UNIT 2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.1678	GEN515225 1-MUSKOGEE 5G
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.1591	GEN335206 1-NELSON UNIT 6
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	117.1	GEN520947 1-HUGO1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23405	117.0584	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23405	117.0361	IMO TAP - MEN TAP 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23258	117.0208	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23542	117.0009	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23278	116.9651	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.9525	GEN334440 1-SABINE UNIT 4
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.9221	GEN509406 1-WELSH #3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.922	GEN509405 1-WELSH #2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.9219	GEN509404 1-WELSH #1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.9072	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23278	116.8918	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.8307	GEN335204 1-NELSON UNIT 4
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23185	116.7991	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.7227	GEN509394 1-FLINT CREEK
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23255	116.6433	MINGO - RED WILLOW 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23184	116.5976	MINGO - SETAB 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.5707	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.538	GEN334441 1-SABINE UNIT 5
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.5064	GEN511841 1-NORTHEASTERN STATION #4
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.4783	GEN511840 1-NORTHEASTERN STATION #3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.453	GEN511839 1-NORTHEASTERN STATION #2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22793	116.3129	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23148	116.3117	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.3104	GEN512689 1-GRDA1 GSU1 22
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23148	116.2793	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.1739	GEN512688 2-GRDA1 GSU2 22
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23208	116.125	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23208	116.111	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.0911	GEN515040 1-SEMINOLE 1G
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.0885	GEN515042 1-SEMINOLE 3G
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23346	116.0781	BENTON - WICHITA 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23875	116.0652	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	116.0554	GEN560687 1-G11-007 0.5750
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	116.0387	ELK CITY 230KV - SWEETW76 230.00 230KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	116.0384	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23645	115.9084	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.25820	115.8217	DBL-G0847-WO
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.8187	GEN515041 1-SEMINOLE 2G
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23060	115.7994	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23097	115.7665	DOVER SW - OKEENE 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.7406	GEN336170 1-GULF OXY U4

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.7129	GEN509409 1-WILKES #3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.664	GEN514910 2-REBUD GEN
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.664	GEN514911 2-REBUD GEN
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.631	GEN300006 1-NEW MADRID UNIT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.6253	GEN300007 1-NEW MADRID UNIT 2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22923	115.5821	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23076	115.5713	HOLCOMB - SETAB 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23098	115.5454	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.4997	GEN514998 1-MCCLAIN UNIT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.4997	GEN514999 1-MCCLAIN UNIT 2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.4458	GEN514900 1-REBUD2S
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.4457	GEN514899 1-REBUD1S
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.4215	GEN334070 1-LEWIS CREEK 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.3603	GEN511843 1-RIVERSIDE STATION #2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.3459	GEN542955 1-LACYGNE UNIT #1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.2397	GEN542956 2-LACYGNE UNIT #2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22867	115.214	SPP-MKEC-08
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	115.1797	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22805	115.1357	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22869	115.1263	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22737	115.114	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22946	115.1087	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.0956	GEN542962 2-IATAN UNIT #2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22869	115.0808	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	115.0501	GEN505432 1-SIKESTON
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22789	115.0426	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22805	114.9735	CIRCLE - MULLERGREEN 230KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9711	GEN318007 1-5MOROW161 161.00
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9649	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9649	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22817	114.9566	MULLERGREEN - SPEARVILLE 230KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9543	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22867	114.9541	SPP-WERE-34
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9516	GEN334030 1-FRONTIER UNIT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22867	114.9511	SPP-MKEC-05
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.949	GEN560639 1-ASGI-10-07 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9488	GEN560636 1-ASGI-10-06 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9419	GEN501823 1-TECHE UNIT 3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9337	GEN337428 1-PERYVILLE UNIT #1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9337	GEN337430 1-PERYVILLE UNIT #3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	114.9267	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	114.9267	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	114.9267	SPP-SWPS-02
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9185	GEN515266 1-AES 1G
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9185	GEN515267 1-AES 2G
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22893	114.9134	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22846	114.9128	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9064	GEN337429 1-PERYVILLE UNIT #2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9064	GEN337432 1-PERYVILLE UNIT #5
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.9032	GEN514905 1-REBUD3S
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22846	114.8969	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8958	GEN337125 6-LS POWER BATESVILLE
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22999	114.8872	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8825	GEN337006 1-DUKE MCADAMS G1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8825	GEN337007 1-DUKE MCADAMS G2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8755	GEN542957 1-IATAN UNIT #1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23077	114.8708	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22692	114.868	DBL-COM-MEDL
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22867	114.8661	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22946	114.866	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8618	GEN337008 1-DUKE MCADAMS S1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8613	GEN335203 1-NELSON UNIT 3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23098	114.8569	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8485	GEN334031 1-FRONTIER UNIT 2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8404	GEN336167 1-GULF OXY U1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8404	GEN336168 1-GULF OXY U2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8404	GEN336169 1-GULF OXY U3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8356	GEN335076 1-DYNEGY UNIT2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22969	114.8306	DOVER SW - HENESSEY 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8272	GEN501911 1-ACADIA UNIT CT1A
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8219	GEN542951 5-HAWTHORN UNIT #5
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22761	114.8207	WRTOD400
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8197	GEN337421 1-OUCHITA CTG1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8197	GEN337423 1-OUCHITA CTG2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8197	GEN337425 1-OUCHITA CTG3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22997	114.8176	OGE3TERM1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.8176	GEN547649 1-ASBURY UNIT #1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22818	114.8065	AXTELL - PAULINE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7997	GEN334392 1-EXXON MOBIL IPP 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7946	GEN514912 2-REBUD GEN
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.794	GEN335075 1-DYNEGY#1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22855	114.7909	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22893	114.7888	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23683	114.7865	DBL-HIT-G084
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23683	114.7865	DBL-HIT-G084
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23044	114.7791	BENTON - ROSE HILL 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22969	114.7557	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7471	GEN506752 1-LEBROCK GAS 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7375	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7375	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7328	GEN515000 1-MCCLAIN UNIT 3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7311	GEN338500 1-MCCLELLAN UNIT #1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.7241	GEN549890 1-SOUTHWEST 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22969	114.7228	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22809	114.7081	MOORE - PAULINE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6995	GEN640009 1-COOPER NUCLEAR STATION
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6857	GEN300003 1-THOMAS HILL UNIT 3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22789	114.6703	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22819	114.6646	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6525	GEN560323 1-G10-40 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6477	GEN511836 1-NORTHEASTERN STATION #1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6357	GEN337954 1-LYNCH UNIT #3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22939	114.6335	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6227	GEN560623 1-ASGI-10-01 0.6000
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.6146	GEN547656 1-STATE LINE UNIT #2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23003	114.5989	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5957	GEN300031 1-CHOUTEAU CTG 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5957	GEN300032 1-CHOUTEAU CTG 2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5869	GEN541151 3-SIBLEY GENERATING UNIT #3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5828	GEN335201 1-NELSON UNIT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5826	GEN338513 1-BAILEY UNIT #1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5798	GEN520812 1-ANADRKS

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5798	GEN520813 1-ANADRK6
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5723	GEN515443 1-MNCOWND1 34.500
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22793	114.5716	G11-007T 345.00 - WOODRING 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5657	GEN511953 G-COGENTRIX GAS # 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5651	GEN511954 S-COGENTRIX STEAM # 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5529	GEN645012 2-NEBRASKA CITY 2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5515	GEN549893 2-SOUTHWEST 2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5508	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23003	114.5483	DEWEY - IODINE 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5417	GEN338510 1-151KNWRI
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	114.5371	SPP-SWPS-02A
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5351	GEN511938 1-OEC STEAM # 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5293	GEN520811 1-ANADRK4
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22769	114.5283	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22893	114.5282	LATHAM57 345.00 - ROSE HILL 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5258	GEN511851 1-COMANCHE #1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5245	GEN501910 1-ACADIA UNIT ST1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5245	GEN599891 1-OKLAUN
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5196	GEN335202 1-NELSON UNIT 2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.5133	GEN503900 1-FITZHUGH CT1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4954	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22753	114.4936	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23077	114.4851	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4837	GEN337422 1-OUCHITA STG1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4837	GEN337424 1-OUCHITA STG2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4837	GEN337426 1-OUCHITA STG3
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22828	114.4818	KNOBHILL - SALINE 69KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22731	114.4803	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4784	GEN506749 1-EASTMAN GENERATION A
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4721	GEN300002 1-THOMAS HILL UNIT 2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	114.4628	PUTNAM - TALOGA 69KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4627	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4618	GEN337124 5-LS POWER BATESVILLE
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4611	GEN335545 1-DOW AEP UNITS
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4607	GEN645011 1-NEBRASKA CITY 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22828	114.4581	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22801	114.4574	CIMARRON - EL RENO 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4529	GEN300016 1-1G1GPDEL 18.000
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4529	GEN300017 1-1G2GPDEL 18.000
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22746	114.452	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22753	114.4487	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	114.448	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4459	GEN521129 1-BLUCANS 4 138.00
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	114.4435	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	114.4431	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	114.4418	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.4303	GEN335137 C4-PPG
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22709	114.4293	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22625	114.4278	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	114.4138	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22726	114.4126	OGE3TERM2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22724	114.4121	MORRISON - STILLWATER 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22999	114.4113	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22781	114.3957	MARSHALL - WOODRING 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22721	114.3929	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22828	114.39	GOLTRY - HELENAT2 69.000 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22798	114.3891	OKEENE - WATONGA SW 69KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3882	GEN334467 1-DUPONT UNIT#1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22781	114.3872	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22769	114.3834	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3778	GEN500915 3-WESTERN KRAFT
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22769	114.373	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22828	114.3729	GOLTRY - IMO 69KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22722	114.3667	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	114.3665	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3662	GEN645001 1-FORT CALHOUN 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22826	114.3651	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3634	GEN335546 3-DOW COGEN
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3631	GEN334335 1-TOLEDO BEND
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3619	GEN546702 1-NM GEN N1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3619	GEN334232 1-PELCNRD U1 13.800
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3619	GEN334233 1-PELCNRD U2 13.800
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22708	114.3614	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22855	114.3608	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22724	114.3582	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	114.3576	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3489	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3484	GEN334298 1-CYPR U1 13.800
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3484	GEN334299 1-CYPR U2 13.800
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3481	GEN511853 1-COMANCHE #3
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3481	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3464	GEN511852 1-COMANCHE #2
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	114.3462	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22805	114.3447	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3428	GEN560645 1-ASGI-10-09 0.6900
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23490	114.3418	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22750	114.3413	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3397	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3365	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3365	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22776	114.3338	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22769	114.3316	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3255	GEN549899 5-JAMES RIVER 5
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3252	GEN560169 1-G08-13 0.5750
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23490	114.3243	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22713	114.3231	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22740	114.3219	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.3171	GEN335644 1-EXXON UNITS
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22771	114.3115	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22762	114.3041	CANTON - TALOGA 69KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22737	114.2979	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22791	114.2965	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	114.2965	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22717	114.2954	MCELROY - STILLWATER 138KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22771	114.2953	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	114.2952	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22728	114.2919	SPP-SWPS-T54
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	114.2851	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2788	GEN506753 1-LEBROCK GAS 2
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22762	114.2745	CANTON - OKEENE 69KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22738	114.2714	OVERTON-TRF
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2707	GEN509408 1-WILKES #2



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22771	114.2703	HYDRO - WEATHERFORD 138KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2657	GEN560118 1-G08-46 0.6900
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22725	114.2649	BROOKLINE - MORGAN 345KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2639	GEN542952 1-MONTROSE UNIT #1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22796	114.2593	OGE3TERM10
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2589	GEN334458 1-CONOCO UNIT#3
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22788	114.2573	CORDELL - GOTEBO 69KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22791	114.2559	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	114.2544	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2527	GEN334282 1-SAM RAYBURN 4
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22717	114.2523	KINZE - MCELROY 138KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2473	GEN300001 1-THOMAS HILL UNIT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22714	114.2453	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22808	114.2441	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	114.241	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22771	114.2408	HYDRO - SICKLES 138KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22716	114.2408	STEGALL - WAYSIDE 230KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22750	114.2397	CHILDRESS - LAKE PAULINE 138KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22721	114.2394	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22718	114.2383	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.237	GEN335640 1-ENCO
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2294	GEN338511 1-1C7KNWRI
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	114.2279	GEN506750 1-EASTMAN GENERATION B
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22708	114.2273	CLINTON - MONTROSE 161KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22781	114.2239	CALUMET - WATONGA SW 69KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22779	114.2211	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.9854	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.9854	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.9257	BASE CASE
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22696	113.6303	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6286	GEN562035 1-G11-016 0.6900
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6219	GEN539677 3-A. M. MULLERGREN GENERATOR
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6214	GEN560549 1-G06-06 0.6900
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6166	GEN560238 1-G10-09 0.6900
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6119	GEN560585 1-G06-44-2 0.6000
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6096	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.6092	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22639	113.6013	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22707	113.5981	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22645	113.5949	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22690	113.5857	OGE3TERM14
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.58	GEN562032 1-G11-017 0.6900
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5699	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22930	113.5681	G08-127T 345.00 - SOONER 345KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22791	113.5669	WWRDEHV7 345.00 (WVDEHV-2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5663	GEN560329 1-G10-45 0.6900
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5639	GEN560209 1-G07-40 0.5750
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5635	GEN560522 1-G05-12 0.6900
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22730	113.5623	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.549	GEN560170 1-G08-16 34.500
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5339	GEN524285 1-WILDORADO WIND GEN
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5241	GEN560595 1-G06-47 0.6000
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5234	GEN560592 1-G06-45 0.6000
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22697	113.5159	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22717	113.5137	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	01G11_020		0	11G	G11_020	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5047	GEN560286 1-G10-01-1WTG 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.5047	GEN560287 1-G10-01-2WTG 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	113.5025	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4923	GEN562014 1-G11-023 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22636	113.4914	CLEVELAND - SOONER 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22760	113.4905	DELAWARE - NEOSHO 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23098	113.4884	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.485	GEN560256 1-G10-14-1 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22742	113.4836	OGE3TERM7
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22691	113.4832	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22691	113.4828	AI12
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22691	113.4814	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4797	GEN560371 1-G07-46 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4792	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4791	GEN560586 1-G06-44-3 0.6000
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4756	GEN560257 1-G10-14-2 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22791	113.4706	WWRDEHV7 345.00 (WVDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4652	GEN560173 1-G08-17 0.5750
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22618	113.4631	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22712	113.4575	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.4571	GEN560105 1-G08-22 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22712	113.4524	AMRN_OUTS5
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	113.4415	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	113.4411	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22741	113.4399	SPP-WERE-41B
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22680	113.4241	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.3877	GEN560353 1-G10-52 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22742	113.3713	SPP-WERE-07B
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22711	113.3524	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.3497	GEN562042 1-G11-014 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.3391	GEN523103 1-NOBLE_WND 3115.00
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.3391	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22593	113.3164	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22593	113.3153	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.293	GEN560359 1-G08-51 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.2877	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.2654	GEN560166 1-G07-48 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22713	113.2581	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.2519	GEN560570 1-G06-39 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.2164	GEN560190 1-G10-08 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22930	113.2134	G08-127T 345.00 - ROSE HILL 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.2084	GEN560279 1-G08-18 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22685	113.2013	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.1905	GEN523462 1-BLACKHAWK GEN #2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.1904	GEN523461 1-BLACKHAWK GEN #1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.1873	GEN562017 1-G11-022 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22659	113.1836	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.1778	GEN520997 1-MORLND2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.1324	GEN562020 1-G11-021 0.6900
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22543	113.1237	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22509	113.1116	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.1102	GEN560598 1-G06-49 0.6000
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.0814	GEN560121 1-G08-47 0.5750
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.0772	GEN527165 1-Mustang Gen #5
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.0769	GEN527162 1-MUSTANG GEN #2
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.0768	GEN527161 1-MUSTANG GEN #1
FDNS	01G11_020	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.0758	GEN527164 1-MUSTANG GEN #4 22 KV

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	113.0309	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22655	112.9894	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.9762	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.9739	GEN515389 1-TLGAWND1 34.500
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.9696	GEN560155 1-G10-11 0.6900
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22770	112.9098	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.9047	GEN520922 1-SLEEPING 138.00
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.865	GEN515790 1-FPLWND2
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.7942	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.7942	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.6725	GEN515397 1-OUSPR1 34.500
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22421	112.608	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.3349	GEN515364 1-CENT 11 0.6000
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	112.3264	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22398	112.272	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21981	112.1823	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.9879	GEN515393 1-OGEWND2G
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.8323	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.7702	GEN560180 1-G07-51 0.6000
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.7341	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.7281	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.7277	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	111.0772	GEN531447 1-HOLCOMB GENERATOR
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	110.822	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	110.7739	GEN560429 1-G08-29 0.6400
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	110.6337	GEN560221 1-G07-62-1 0.6900
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	110.6337	GEN560222 1-G07-62-2 0.6900
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	110.6337	GEN560223 1-G07-62-3 0.6900
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	110.6337	GEN560224 1-G07-62-4 0.6900
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21986	110.1061	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	108.8803	GEN562023 1-G11-020 0.6900
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	108.8803	GEN562026 1-G11-019 0.6900
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	107.4696	GEN560648 1-G07-21 0.5750
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	107.4499	GEN560115 1-G08-44 0.6900
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	104.3259	GEN560175 1-G07-44 0.5750
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	104.2767	GEN560282 1-G08-19 0.6000
FDNS	01G11_020		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22704	104.2612	GEN562010 1-G11-024 0.6900
FDNS	01G11_020		2 11G	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.21389	153.2624	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01G11_020		2 11G	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.21389	153.2578	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01G11_020		2 11G	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23931	135.4741	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01G11_020		2 11G	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23931	135.4705	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01G11_020		2 11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.23734	118.0697	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_020		2 11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23734	118.0697	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	01G11_020		2 11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.23734	118.067	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_020		2 11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23734	118.067	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28072	102.801	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28072	102.7725	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28080	101.9173	LACYGNE - STILWELL 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28080	101.8867	LACYGNE - STILWELL 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28090	101.9765	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28090	101.9452	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	02ALL		0 11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22166	100.2436	LACYGNE - NEOSHO 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28091	104.1295	LACYGNE - NEOSHO 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28091	104.1056	LACYGNE - NEOSHO 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28167	103.0816	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28167	103.0547	HOYT - STRANGER CREEK 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28092	102.7825	CRAIG - STRANGER CREEK 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28092	102.7529	CRAIG - STRANGER CREEK 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28156	103.4234	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28156	103.3981	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28084	102.7611	ROSE HILL - WOLF CREEK 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30277	123.3172	DBL-WOOD-MED
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23461	106.9267	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23461	106.9267	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	106.8315	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	105.6948	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24510	105.6232	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.24510	105.6232	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	105.2448	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	104.5444	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22676	104.3941	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	103.7515	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	103.5899	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	103.5217	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	103.4608	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	103.4402	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	103.1951	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	103.1946	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22979	103.1784	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.8953	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22979	102.8714	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.813	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.7934	GEN337041 1-GERALD ANDRUS
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.6604	GEN501813 1-RODEMACHER UNIT 3
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22172	102.6193	SPP-SWPS-03
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.5596	GEN509403 1-PIRKEY GENERATION
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22979	102.5253	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.3487	GEN514806 1-SOONER UNIT 2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.3214	GEN336831 1-BAXTER WILSON SES
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	102.2806	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.1925	GEN515226 1-MUSKOGEE 6G
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.1637	GEN501812 1-RODEMACHER UNIT 2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.124	GEN335206 1-NELSON UNIT 6
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	102.0496	GEN514805 1-SOONER UNIT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	101.9904	SPP-SWPS-02
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	101.9904	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	101.9904	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.901	GEN334440 1-SABINE UNIT 4
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.8811	GEN520947 1-HUGO1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22841	101.8467	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22841	101.8133	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.7976	GEN509406 1-WELSH #3
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.7975	GEN509404 1-WELSH #1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.7975	GEN509405 1-WELSH #2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22718	101.7798	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.7772	GEN335204 1-NELSON UNIT 4
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.7493	GEN515223 1-MUSKOGEE 4G
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.7029	GEN515225 1-MUSKOGEE 5G
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22718	101.6888	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22169	101.6572	SPP-SWPS-02A
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23081	101.6266	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.6097	GEN509394 1-FLINT CREEK

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22518	101.5908	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22781	101.5716	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22531	101.5203	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.5168	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22172	101.4746	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.4708	GEN334441 1-SABINE UNIT 5
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.3751	GEN511841 1-NORTHEASTERN STATION #4
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22378	101.353	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.3464	GEN511840 1-NORTHEASTERN STATION #3
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.3166	GEN511839 1-NORTHEASTERN STATION #2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.1777	GEN512689 1-GRDA1 GSU1 22
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22592	101.1291	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22592	101.0973	CEDARDALE - OKEENE 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22937	101.0812	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22937	101.0771	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22506	101.0444	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	101.0425	GEN512688 2-GRDA1 GSU2 22
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22531	100.9191	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23512	100.8103	BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.6813	GEN515042 1-SEMINOLE 3G
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.6505	GEN336170 1-GULF OXY U4
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22073	100.5941	CIMARRON - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.5699	GEN300006 1-NEW MADRID UNIT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.5648	GEN300007 1-NEW MADRID UNIT 2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.5634	GEN509409 1-WILKES #3
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22541	100.5445	DOVER SW - OKEENE 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.5293	GEN515040 1-SEMINOLE 1G
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.4384	GEN515041 1-SEMINOLE 2G
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22249	100.3781	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.3075	GEN542955 1-LACYGNE UNIT #1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.2976	GEN334070 1-LEWIS CREEK 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.2797	GEN514910 2-REDBUD GEN
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.2797	GEN514911 2-REDBUD GEN
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22298	100.2657	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.261	GEN542956 2-LACYGNE UNIT #2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22298	100.2244	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.1866	GEN511843 1-RIVERSIDE STATION #2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22435	100.1806	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22257	100.1673	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22318	100.1609	SPP-MKEC-08
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22241	100.1448	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.1401	GEN514998 1-MCCLAIN UNIT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.1401	GEN514999 1-MCCLAIN UNIT 2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22255	100.137	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.1331	GEN542962 2-IATAN UNIT #2
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22384	100.1082	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.0855	GEN514900 1-REDBUD2S
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22159	100.0854	GEN514899 1-REDBUD1S
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22685	100	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22487	100	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22454	100	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22454	100	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22270	100	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22249	100	G11-007T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22073	100	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.34311	144.3307	DBL-MEDLO-WI

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.34311	144.3306	DBL-MEDLO-WI
FDNS	02ALL		2 11G	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.20929	128.6358	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.37471	128.378	DBL-WOOD-MED
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.37471	128.378	DBL-WOOD-MED
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28708	117.5903	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28708	117.5627	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28708	116.5021	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28708	116.4728	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.23373	114.689	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29626	112.2816	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29626	112.2816	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29626	112.2815	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28700	110.92	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28700	110.8274	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.30874	110.1515	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.30874	110.1515	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.30874	110.1381	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.30874	110.1381	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28422	109.5072	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28422	109.3497	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	108.6311	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	108.6109	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28069	108.4247	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28069	108.424	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28069	108.3668	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28069	108.3661	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28724	108.0719	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28724	108.0344	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28643	108.0146	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28643	107.974	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	107.9721	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	107.9518	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28654	107.6583	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28071	107.6363	SPP-SWPS-03
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28654	107.6331	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28071	107.5843	SPP-SWPS-03
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	107.434	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	107.4121	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29003	107.2905	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29003	107.276	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28069	107.2237	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28069	107.1703	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	107.0557	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	107.0341	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28654	106.9542	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28654	106.9278	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29003	106.9071	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29003	106.8918	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28069	106.8453	SPP-SWPS-02
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28069	106.8453	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28069	106.8453	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28069	106.7965	SPP-SWPS-02
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28069	106.7965	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28069	106.7965	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29003	106.4995	ROMAN NOSE - SOUTHARD 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29003	106.4824	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28069	106.4708	SPP-SWPS-02A
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29194	106.4431	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28069	106.42	SPP-SWPS-02A
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29194	106.3834	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	106.3071	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	106.2837	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	106.2734	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	106.2524	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	106.0462	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28087	106.0354	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	106.0222	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	106.0212	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28524	106.0084	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.9983	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28087	105.9911	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.9825	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28524	105.9704	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.9573	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28744	105.8922	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28886	105.8848	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28744	105.8743	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28886	105.868	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28886	105.8549	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28886	105.8381	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28744	105.7962	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28744	105.7783	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.7178	GEN514806 1-SOONER UNIT 2
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.6965	GEN514806 1-SOONER UNIT 2
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.6286	GEN509403 1-PIRKEY GENERATION
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.6064	GEN509403 1-PIRKEY GENERATION
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.5757	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.5513	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28323	105.5435	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28323	105.5178	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.4831	GEN501813 1-RODEMACHER UNIT 3
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.4603	GEN515226 1-MUSKOGEE 6G
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.4591	GEN501813 1-RODEMACHER UNIT 3
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.4379	GEN515226 1-MUSKOGEE 6G
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.4263	GEN337041 1-GERALD ANDRUS
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.4225	GEN514805 1-SOONER UNIT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.4011	GEN337041 1-GERALD ANDRUS
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28790	105.3987	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.3977	GEN514805 1-SOONER UNIT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28790	105.3818	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.3098	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28344	105.2896	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28509	105.2847	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.2833	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28344	105.2717	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28509	105.2596	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28991	105.2428	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28991	105.2052	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28991	105.2049	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.1953	GEN520947 1-HUGO1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28593	105.192	CEDARDALE - MOORELAND 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.1732	GEN520947 1-HUGO1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28593	105.172	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28991	105.1694	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28593	105.1447	CEDARDALE - OKEENE 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28593	105.1248	CEDARDALE - OKEENE 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.1048	GEN336831 1-BAXTER WILSON SES
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.0947	GEN501812 1-RODEMACHER UNIT 2
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.0794	GEN336831 1-BAXTER WILSON SES
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.0736	GEN515223 1-MUSKOGEE 4G
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.0699	GEN501812 1-RODEMACHER UNIT 2
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.0502	GEN515223 1-MUSKOGEE 4G
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.0471	GEN335206 1-NELSON UNIT 6
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.0332	GEN515225 1-MUSKOGEE 5G
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.0221	GEN335206 1-NELSON UNIT 6
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.0136	GEN509406 1-WELSH #3
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.0135	GEN509404 1-WELSH #1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	105.0135	GEN509405 1-WELSH #2
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	105.0098	GEN515225 1-MUSKOGEE 5G
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.9901	GEN509406 1-WELSH #3
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.99	GEN509404 1-WELSH #1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.99	GEN509405 1-WELSH #2
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.8944	GEN334440 1-SABINE UNIT 4
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.8692	GEN334440 1-SABINE UNIT 4
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.8067	GEN509394 1-FLINT CREEK
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.7809	GEN509394 1-FLINT CREEK
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.7793	GEN335204 1-NELSON UNIT 4
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.7538	GEN335204 1-NELSON UNIT 4
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.29715	104.7517	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28422	104.7208	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.29715	104.7175	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28422	104.6626	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.66	GEN511841 1-NORTHEASTERN STATION #4
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.6358	GEN511840 1-NORTHEASTERN STATION #3
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.6342	GEN511841 1-NORTHEASTERN STATION #4
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.6266	GEN511839 1-NORTHEASTERN STATION #2
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.61	GEN511840 1-NORTHEASTERN STATION #3
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.6008	GEN511839 1-NORTHEASTERN STATION #2
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.5547	GEN334441 1-SABINE UNIT 5
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.5289	GEN334441 1-SABINE UNIT 5
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.5028	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.4947	GEN512689 1-GRDA1 GSU1 22
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.4762	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28539	104.4715	DOVER SW - OKEENE 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.4689	GEN512689 1-GRDA1 GSU1 22
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.4627	GEN560282 1-G08-19 0.6000
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28539	104.4507	DOVER SW - OKEENE 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.4452	GEN560282 1-G08-19 0.6000
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.3972	GEN562010 1-G11-024 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.3868	GEN562010 1-G11-024 0.6900
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.3779	GEN512688 2-GRDA1 GSU2 22
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28344	104.3746	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28344	104.352	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.3518	GEN512688 2-GRDA1 GSU2 22
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	104.3498	GEN560175 1-G07-44 0.5750
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	104.3451	GEN560175 1-G07-44 0.5750
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27853	104.3329	CIMARRON - MINCO 7 345.00 345KV CKT 1



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.27853	104.3113	CIMARRON - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28191	104.2796	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	104.267	GEN515042 1-SEMINOLE 3G
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28191	104.2473	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	104.2432	GEN515042 1-SEMINOLE 3G
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28246	104.2324	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28280	104.2077	SPP-MKEC-08
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28246	104.205	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28074	104.1873	DBL-COM-MEDL
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28280	104.1796	SPP-MKEC-08
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28246	104.1777	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28206	104.1596	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28211	104.1577	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28246	104.1516	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28206	104.129	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28211	104.1286	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28363	104.0892	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28363	104.0566	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	104.0388	GEN515041 1-SEMINOLE 2G
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	104.0156	GEN515040 1-SEMINOLE 1G
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	104.0143	GEN515041 1-SEMINOLE 2G
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.9906	GEN515040 1-SEMINOLE 1G
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28227	103.9715	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.9576	GEN509409 1-WILKES #3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28227	103.9405	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.9322	GEN509409 1-WILKES #3
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28427	103.9133	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28427	103.8857	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.8703	GEN336170 1-GULF OXY U4
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.8427	GEN336170 1-GULF OXY U4
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28427	103.8391	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.8308	GEN514910 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.8308	GEN514911 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28280	103.8113	SPP-WERE-34
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28427	103.8111	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28280	103.8076	SPP-MKEC-05
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.805	GEN514910 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.805	GEN514911 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28280	103.7861	SPP-WERE-34
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28280	103.7823	SPP-MKEC-05
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.7648	GEN514998 1-MCCLAIN UNIT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.7648	GEN514999 1-MCCLAIN UNIT 2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.7639	GEN560115 1-G08-44 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.7552	GEN560648 1-G07-21 0.5750
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.7442	GEN560115 1-G08-44 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28191	103.7437	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.7401	GEN560648 1-G07-21 0.5750
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.7397	GEN514998 1-MCCLAIN UNIT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.7397	GEN514999 1-MCCLAIN UNIT 2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28227	103.7371	AXTELL - PAULINE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28455	103.7194	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28191	103.7123	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28227	103.7084	AXTELL - PAULINE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.7066	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.7057	GEN511843 1-RIVERSIDE STATION #2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28455	103.6952	BENTON - ROSE HILL 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.6792	GEN511843 1-RIVERSIDE STATION #2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.6712	GEN300006 1-NEW MADRID UNIT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.6695	GEN334070 1-LEWIS CREEK 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.6651	GEN300007 1-NEW MADRID UNIT 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.6571	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.6558	GEN514899 1-REDBUD15
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.6558	GEN514900 1-REDBUD25
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28280	103.6458	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.6429	GEN334070 1-LEWIS CREEK 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.6424	GEN300006 1-NEW MADRID UNIT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.6362	GEN300007 1-NEW MADRID UNIT 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.6294	GEN514899 1-REDBUD15
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.6294	GEN514900 1-REDBUD25
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28256	103.629	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28280	103.6205	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28256	103.6026	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28256	103.6022	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28217	103.6007	MOORE - PAULINE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28702	103.585	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28256	103.5763	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28217	103.5717	MOORE - PAULINE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28702	103.5657	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28702	103.5599	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.27853	103.5576	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28300	103.5522	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28702	103.5409	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.27853	103.5313	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28300	103.5293	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28128	103.4834	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28160	103.477	WRTOD400
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28160	103.4519	WRTOD400
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28128	103.4465	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28300	103.4221	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28300	103.398	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28405	103.3871	DOVER SW - HENESSEY 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28205	103.3776	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28405	103.3604	DOVER SW - HENESSEY 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28602	103.3581	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.3502	GEN560639 1-ASGI-10-07 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.3489	GEN560636 1-ASGI-10-06 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28205	103.348	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.27945	103.3451	GRACMNT7 345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28437	103.3412	OGE3TERM1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.3218	GEN560639 1-ASGI-10-07 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.3206	GEN560636 1-ASGI-10-06 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28602	103.3199	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28117	103.3198	TRF-STE GALL
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28117	103.3176	STE GALL TY 345/230KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28117	103.3168	NEB01WAPAB3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.27945	103.3159	GRACMNT7 345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28117	103.3147	STE GALL - STE GALL TRANSFORMER 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.314	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.314	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28437	103.3137	OGE3TERM1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28131	103.3093	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.3051	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2987	GEN334030 1-FRONTIER UNIT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28405	103.2903	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28117	103.2902	TRF-STE GALL
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.2899	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28117	103.2878	STEGALL TY 345/230KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28117	103.2871	NEB01WAPAB3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2865	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2865	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28117	103.285	STEGALL - STEGALL TRANSFORMER 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28131	103.2807	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2776	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2711	GEN334030 1-FRONTIER UNIT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28405	103.2631	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.2623	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28113	103.259	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2514	GEN501823 1-TECHE UNIT 3
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28405	103.2484	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2402	GEN318007 1-5MOROW161 161.00
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2397	GEN505432 1-SIKESTON
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28187	103.2366	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2324	GEN337428 1-PERYVILLE UNIT #1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2324	GEN337430 1-PERYVILLE UNIT #3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28113	103.2315	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2228	GEN501823 1-TECHE UNIT 3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28405	103.2208	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2206	GEN514905 1-REDBUD3S
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28187	103.217	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2119	GEN334031 1-FRONTIER UNIT 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2115	GEN318007 1-5MOROW161 161.00
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2108	GEN337429 1-PERYVILLE UNIT #2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.2108	GEN337432 1-PERYVILLE UNIT #5
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2103	GEN505432 1-SIKESTON
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28143	103.2091	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28187	103.2086	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2043	GEN337428 1-PERYVILLE UNIT #1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.2043	GEN337430 1-PERYVILLE UNIT #3
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1972	GEN515266 1-AES 1G
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1972	GEN515267 1-AES 2G
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1928	GEN514905 1-REDBUD3S
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28187	103.1889	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1883	GEN335203 1-NELSON UNIT 3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1841	GEN334031 1-FRONTIER UNIT 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1827	GEN337429 1-PERYVILLE UNIT #2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1826	GEN337432 1-PERYVILLE UNIT #5
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.1819	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28143	103.1789	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.1787	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28388	103.1777	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1745	GEN560687 1-G11-007 0.5750
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28131	103.1741	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1739	GEN337125 6-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.1715	SPP-SWPS-T54
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28269	103.1707	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1692	GEN515266 1-AES 1G
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.1692	GEN515267 1-AES 2G
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.1663	GEN335076 1-DYNEGY UNIT2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1653	GEN337006 1-DUKE MCADAMS G1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1653	GEN337007 1-DUKE MCADAMS G2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1619	GEN560323 1-G10-40 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28131	103.16	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1596	GEN335203 1-NELSON UNIT 3
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1555	GEN501911 1-ACADIA UNIT CT1A
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1553	GEN336167 1-GULF OXY U1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1553	GEN336168 1-GULF OXY U2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1553	GEN336169 1-GULF OXY U3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28388	103.1522	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28113	103.1511	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1496	GEN337008 1-DUKE MCADAMS S1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1486	GEN560687 1-G11-007 0.5750
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28113	103.1479	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1469	GEN334392 1-EXXON MOBIL IPP 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1456	GEN337125 6-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28131	103.1449	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28300	103.1429	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1425	GEN337421 1-OUCHITA CTG1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1425	GEN337423 1-OUCHITA CTG2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1425	GEN337425 1-OUCHITA CTG3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28269	103.1414	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28113	103.1408	SPP-SWPS-T54
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1402	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1402	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1382	GEN335076 1-DYNEGY UNIT2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1369	GEN337006 1-DUKE MCADAMS G1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1369	GEN337007 1-DUKE MCADAMS G2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1359	GEN560323 1-G10-40 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1354	GEN506752 1-LEBROCK GAS 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1344	GEN335075 1-DYNEGY#1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1334	GEN514912 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28131	103.1309	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28128	103.1292	AMARILLO SOUTH INTERCHANGE - G07-48T 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1269	GEN501911 1-ACADIA UNIT CT1A
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1266	GEN336167 1-GULF OXY U1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1266	GEN336168 1-GULF OXY U2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1266	GEN336169 1-GULF OXY U3
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28048	103.1255	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.124	GEN547649 1-ASBURY UNIT #1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28116	103.123	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28131	103.1222	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1211	GEN337008 1-DUKE MCADAMS S1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1183	GEN334392 1-EXXON MOBIL IPP 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28300	103.117	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28172	103.1158	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1142	GEN337421 1-OUCHITA CTG1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1142	GEN337423 1-OUCHITA CTG2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1142	GEN337425 1-OUCHITA CTG3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1118	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1118	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27991	103.1101	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	103.1097	GEN515000 1-MCLAIN UNIT 3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1074	GEN506752 1-LEBROCK GAS 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1061	GEN335075 1-DYNEGY#1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	103.1054	GEN514912 2-REDBUD GEN

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.0944	GEN547649 1-ASBURY UNIT #1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28128	103.0943	AMARILLO SOUTH INTERCHANGE - G07-48T 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28116	103.0943	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28131	103.093	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28048	103.0905	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.087	GEN515443 1-MNCOWND1 34.500
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28172	103.0869	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.0825	GEN515000 1-MCCLAIN UNIT 3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.27991	103.0823	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.0818	GEN338500 1-MCCELLEAN UNIT #1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28172	103.065	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.0622	GEN511836 1-NORTHEASTERN STATION #1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.0597	GEN515443 1-MNCOWND1 34.500
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28116	103.0575	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.0534	GEN338500 1-MCCELLEAN UNIT #1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28148	103.0505	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.0503	GEN549890 1-SOUTHWEST 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.0371	SHAMROCK - WELLINGTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28172	103.0357	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	103.0351	CONWAY SUB - YARNELL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28235	103.0343	KNOBHILL - SALINE 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.0336	GEN511836 1-NORTHEASTERN STATION #1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28116	103.0334	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28101	103.03	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	103.0284	SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28118	103.0278	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28116	103.0268	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	103.0244	NICHOLS STATION - YARNELL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28148	103.0206	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	103.0206	GEN549890 1-SOUTHWEST 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.0199	GEN300031 1-CHOUTEAU CTG 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.0199	GEN300032 1-CHOUTEAU CTG 2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.0172	GEN520812 1-ANADRK5
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.0171	GEN520813 1-ANADRK6
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28141	103.0154	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28269	103.0117	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28166	103.0117	OGE3TERM10
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28235	103.0068	KNOBHILL - SALINE 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28113	103.0066	SHAMROCK - WELLINGTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28235	103.0065	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28116	103.0044	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28099	103.0043	CONWAY SUB - YARNELL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28225	103.0033	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.0021	GEN511953 G-COGENTRIX GAS # 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.0015	GEN511954 S-COGENTRIX STEAM # 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28101	103.0014	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	103.0008	GEN337954 1-LYNCH UNIT #3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28118	102.998	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28113	102.998	SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28187	102.9952	CLINTON JUNCTION - G07-32T 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28099	102.9933	NICHOLS STATION - YARNELL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28141	102.9914	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9912	GEN300031 1-CHOUTEAU CTG 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9912	GEN300032 1-CHOUTEAU CTG 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9893	GEN520812 1-ANADRK5
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9892	GEN520813 1-ANADRK6

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9858	GEN547656 1-STATE LINE UNIT #2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9847	GEN511851 1-COMANCHE #1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28108	102.9839	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28166	102.9823	OGE3TERM10
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28269	102.9816	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28116	102.9797	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28235	102.9787	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28225	102.9749	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9736	GEN511953 G-COGENTRIX GAS # 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.973	GEN511954 S-COGENTRIX STEAM # 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9721	GEN337954 1-LYNCH UNIT #3
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9717	GEN511938 1-OEC STEAM # 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28187	102.9665	CLINTON JUNCTION - G07-32T 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28178	102.9661	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9658	GEN335201 1-NELSON UNIT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	102.9598	SPP-SWPS-T53
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9572	GEN511851 1-COMANCHE #1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9563	GEN547656 1-STATE LINE UNIT #2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28207	102.9544	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28110	102.9541	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	102.9512	CONWAY SUB - KIRBY SWITCHING STATION 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28108	102.9508	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28116	102.9507	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28116	102.9501	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9479	GEN509408 1-WILKES #2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	102.9462	HOLLIS TAP - WELLINGTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28141	102.9446	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9431	GEN511938 1-OEC STEAM # 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9394	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9378	GEN338513 1-BAILEY UNIT #1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28147	102.9376	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9371	GEN335201 1-NELSON UNIT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28178	102.9363	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28185	102.9358	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28113	102.9348	CHILDRESS - HOLLIS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28100	102.934	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9299	GEN503900 1-FITZHUGH CT1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28099	102.928	SPP-SWPS-T53
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28207	102.9273	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28110	102.927	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28235	102.926	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9252	GEN338510 1-151KNWR
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28116	102.9211	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28141	102.9203	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28099	102.9195	CONWAY SUB - KIRBY SWITCHING STATION 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9194	GEN509408 1-WILKES #2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28199	102.9191	OKEENE - WATONGA SW 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28113	102.9157	HOLLIS TAP - WELLINGTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9151	GEN501910 1-ACADIA UNIT ST1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9139	GEN549893 2-SOUTHWEST 2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9137	GEN335202 1-NELSON UNIT 2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28192	102.9114	PUTNAM - TALOGA 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9106	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.909	GEN521129 1-BLUCANS 4 138.00
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9088	GEN338513 1-BAILEY UNIT #1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9087	GEN506749 1-EASTMAN GENERATION A

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28148	102.9081	MCCOOL - MOORE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.9063	GEN560169 1-G08-13 0.5750
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28185	102.9058	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28100	102.9058	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28235	102.9053	GOLTRY - IMO 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28134	102.9044	JENSEN ROAD - JENSEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28113	102.9044	CHILDRESS - HOLLIS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28147	102.9043	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.9011	GEN503900 1-FITZHUGH CT1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28130	102.8983	RED WILLOW (R.WIL T1) 345/115/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28235	102.8974	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8963	GEN338510 1-151KNWRI
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28199	102.8911	OKENEV - WATONGA SW 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28111	102.8901	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28192	102.8875	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28192	102.887	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.8862	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28131	102.886	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8859	GEN501910 1-ACADIA UNIT ST1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8848	GEN335202 1-NELSON UNIT 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8846	GEN549893 2-SOUTHWEST 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28192	102.8834	PUTNAM - TALOGA 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8807	GEN521129 1-BLUCANS 4 138.00
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28602	102.8799	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8798	GEN506749 1-EASTMAN GENERATION A
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28192	102.8785	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.8785	GEN337422 1-OUCHITA STG1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.8785	GEN337424 1-OUCHITA STG2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.8785	GEN337426 1-OUCHITA STG3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28148	102.8782	MCCOOL - MOORE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8781	GEN560169 1-G08-13 0.5750
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28100	102.8779	CLARENDON - JERICHO 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28235	102.8764	GOLTRY - IMO 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28100	102.876	JERICHO - KIRBY SWITCHING STATION 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28100	102.875	JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28134	102.8747	JENSEN ROAD - JENSEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28130	102.8685	RED WILLOW (R.WIL T1) 345/115/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28388	102.864	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28103	102.8614	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28194	102.8611	CIMARRON - EL RENO 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.8603	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28192	102.8594	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28111	102.8592	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28192	102.8589	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28109	102.8585	STEGALL - WAYSIDE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28131	102.8579	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.8579	GEN335545 1-DOW AEP UNITS
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8572	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28132	102.8547	OVERTON-TRF
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28162	102.8517	MARSHALL - WOODRING 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.8511	GEN520811 1-ANADRK4
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28192	102.851	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8495	GEN337422 1-OUCHITA STG1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8495	GEN337424 1-OUCHITA STG2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.8495	GEN337426 1-OUCHITA STG3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28100	102.8481	CLARENDON - JERICHO 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28100	102.8462	JERICHO - KIRBY SWITCHING STATION 115KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28100	102.8453	JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28162	102.8447	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.8443	GEN337124 5-LS POWER BATESVILLE
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28192	102.8444	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.8421	GEN335137 C4-PPG
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28117	102.8402	BROOKLINE - MORGAN 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.8378	GEN300003 1-THOMAS HILL UNIT 3
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28388	102.8361	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28160	102.8324	CANTON - TALOGA 69KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28103	102.8322	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28194	102.8321	CIMARRON - EL RENO 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.8313	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.8294	GEN300016 1-1G1GPDEL 18.000
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.8294	GEN300017 1-1G2GPDEL 18.000
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28109	102.8287	STEGALL - WAYSIDE 230KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.8286	GEN335545 1-DOW AEP UNITS
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28132	102.8264	OVERTON-TRF
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.8255	GEN511852 1-COMANCHE #2
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28162	102.8239	MARSHALL - WOODRING 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.8226	GEN520811 1-ANADRK4
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28162	102.8168	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28192	102.8163	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.8152	GEN337124 5-LS POWER BATESVILLE
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.8131	GEN511853 1-COMANCHE #3
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.813	GEN335137 C4-PPG
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28117	102.8118	BROOKLINE - MORGAN 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28115	102.8114	OGE3TERM2
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.8112	GEN334467 1-DUPONT UNIT#1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28113	102.8096	MORRISON - STILLWATER 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.8095	GEN500915 3-WESTERN KRAFT
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28107	102.8069	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.8068	GEN300003 1-THOMAS HILL UNIT 3
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28160	102.8035	CANTON - TALOGA 69KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28160	102.8034	CANTON - OKEENE 69KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28115	102.8034	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28142	102.8005	WRTOD1104
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.8001	GEN300016 1-1G1GPDEL 18.000
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.8001	GEN300017 1-1G2GPDEL 18.000
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.7971	GEN511852 1-COMANCHE #2
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.7948	GEN334335 1-TOLEDO BEND
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.7925	GEN334232 1-PELNCNRD U1 13.800
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.7925	GEN334233 1-PELNCNRD U2 13.800
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.7847	GEN511853 1-COMANCHE #3
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28115	102.7846	OGE3TERM2
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28113	102.7827	MORRISON - STILLWATER 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28099	102.7827	CLINTON - MONTROSE 161KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.7821	GEN334467 1-DUPONT UNIT#1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.781	GEN335546 3-DOW COGEN
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	102.7804	GEN500915 3-WESTERN KRAFT
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28107	102.7782	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.7777	GEN334298 1-CYPR U1 13.800
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	102.7777	GEN334299 1-CYPR U2 13.800
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28213	102.7766	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28099	102.7752	KCPL-OPGD06A
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28115	102.7747	MCADAMS - WOLF CREEK 500KV CKT 1



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28160	102.7745	CANTON - OKEENE 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28142	102.772	WRTOD1104
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28178	102.7685	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28102	102.7676	ELK CITY (ELKCTY-4) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	102.7674	KCPL-OPGD01A
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7656	GEN334335 1-TOLEDO BEND
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28074	102.7654	DBL-SPRVL-CO
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7633	GEN334232 1-PELNCNRD U1 13.800
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7633	GEN334233 1-PELNCNRD U2 13.800
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.7601	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.7601	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.27776	102.7599	SOONER - SPRING CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28106	102.7551	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28099	102.7541	CLINTON - MONTROSE 161KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7518	GEN335546 3-DOW COGEN
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.7495	GEN560118 1-G08-46 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7478	GEN334298 1-CYPR U1 13.800
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7478	GEN334299 1-CYPR U2 13.800
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28213	102.747	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28099	102.7459	KCPL-OPGD06A
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.7452	GEN335644 1-EXXON UNITS
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	102.7447	HAWTHORN - NASHUA 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28178	102.7419	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28099	102.738	KCPL-OPGD01A
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28102	102.7375	ELK CITY (ELKCTY-4) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.7368	GEN506753 1-LEBROCK GAS 2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28138	102.7352	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28059	102.7347	NORTHEAST STATION - TULSA NORTH 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7306	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7306	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28143	102.7288	NINNES3 115.00 - PRATT 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28106	102.726	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28109	102.7233	AI43
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28107	102.7229	MCELROY - STILLWATER 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.7208	GEN560118 1-G08-46 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28178	102.7191	CALUMET - WATONGA SW 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28099	102.7152	HAWTHORN - NASHUA 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28108	102.7109	7LUTESVIL 345.00 - 7ST FRANC 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28118	102.7095	EVANS ENERGY CENTER NORTH - MAIZE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28138	102.7071	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28059	102.7057	NORTHEAST STATION - TULSA NORTH 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28143	102.7031	NINNES3 115.00 - ST JOHN 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28143	102.7003	NINNES3 115.00 - PRATT 115KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28074	102.6982	DBL-SPRVL-CO
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28178	102.6902	CALUMET - WATONGA SW 69KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.6664	GEN599891 1-OKLAUN
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.4335	BASE CASE
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.4033	BASE CASE
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.2627	GEN515389 1-TLGAWND1 34.500
FDNS	02ALL		2 11G	G11_020	TO->FROM	MATTHEWSON	345.00 - TATONGA7	345.00 345KV CKT 2	1195	0.23181	102.223	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	MATTHEWSON	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23181	102.223	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28121	102.1715	GRAY CO 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.1591	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.1542	GEN560140 1-G09-08 0.7000
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.1541	GEN539630 1-FLATRDG1 34.500
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.1526	GEN645011 1-NEBRASKA CITY 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28087	102.1465	MAYFLOWER 500 - PLEASANT HILL 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.1381	GEN560235 1-G08-92 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.1367	GEN530639 01-HYSWINDG1 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28097	102.1363	BAXTER WILSON SES - RAY BRASWELL SES 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.1256	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.124	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.1225	GEN539630 1-FLATRDG1 34.500
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28121	102.1209	GRAY CO 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.1199	GEN641089 2-ENERGY CENTER 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.1186	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.1154	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28085	102.1152	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.1128	GEN560694 1-G11-008-2 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.1108	GEN560695 1-G11-008-3 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.11	GEN560386 1-G10-029-1 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.11	GEN560387 1-G10-029-2 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.11	GEN560388 1-G10-029-3 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.107	GEN560235 1-G08-92 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.1054	GEN530639 01-HYSWINDG1 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28097	102.1049	BAXTER WILSON SES - RAY BRASWELL SES 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.1043	GEN560514 1-G04_014 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.1034	GEN560606 1-G07-11 0.5750
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0885	GEN641089 2-ENERGY CENTER 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0882	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28027	102.0879	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28027	102.0847	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28085	102.0839	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0832	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.082	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.27911	102.0817	SOONER - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0814	GEN560694 1-G11-008-2 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0805	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0797	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0794	GEN560695 1-G11-008-3 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0787	GEN560386 1-G10-029-1 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0787	GEN560387 1-G10-029-2 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0787	GEN560388 1-G10-029-3 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0775	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.075	GEN515790 1-FPLWIND2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0732	GEN560606 1-G07-11 0.5750
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.073	GEN560514 1-G04_014 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0694	GEN520922 1-SLEEPING 138.00
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28119	102.0667	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28099	102.0653	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28027	102.0571	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.27911	102.0551	SOONER - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28027	102.054	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0517	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0461	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.043	GEN515790 1-FPLWIND2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0423	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0415	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0396	GEN531486 1-CNTRPL2 34.500
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28260	102.0385	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0377	GEN520922 1-SLEEPING 138.00
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28119	102.0348	KILDARE4 - WHITE EAGLE 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28099	102.0336	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0289	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28126	102.0252	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0239	GEN522814 1-LUBBOCK POWER & LIGHT-MACKENZIE GEN
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0223	GEN524895 1-SAN JUAN MESA WIND GEN
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28107	102.0219	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0185	CENTER GEN TRANS 4 - SQUARE BUTTE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0107	GEN560238 1-G10-09 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28072	102.01	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28072	102.0096	AI12
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28095	102.0081	GEN531486 1-CNTRLPL2 34.500
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28127	102.0072	OGE3TERM7
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.006	GEN560356 1-G10-53 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	102.0058	GEN560693 1-G11-008-1 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28260	102.0046	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28072	101.9996	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28070	101.9987	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9974	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.9969	GEN515397 1-OUSPRT 1 34.500
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.9954	GEN560432 1-G08-124 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9944	GEN522814 1-LUBBOCK POWER & LIGHT-MACKENZIE GEN
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28126	101.9932	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.993	GEN524895 1-SAN JUAN MESA WIND GEN
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.9929	GEN560659 1-G07-38 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28151	101.9908	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28107	101.9892	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9876	CENTER GEN TRANS 4 - SQUARE BUTTE 230KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28086	101.9859	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.9833	GEN562035 1-G11-016 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9796	GEN560238 1-G10-09 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28072	101.9781	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28072	101.9777	AI12
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28127	101.9751	OGE3TERM7
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9742	GEN560356 1-G10-53 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9739	GEN560693 1-G11-008-1 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.9706	GEN560549 1-G06-06 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28072	101.9676	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28070	101.9661	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.27987	101.9658	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9643	GEN515397 1-OUSPRT 1 34.500
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9636	GEN560432 1-G08-124 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9612	GEN560659 1-G07-38 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28151	101.9591	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28078	101.9569	CIMARRON (CIMARON2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28086	101.9541	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28126	101.9537	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28126	101.9531	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.27527	101.9524	MATTHEWSON 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9516	GEN562035 1-G11-016 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28126	101.951	SPP-WERE-41B
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.9421	GEN523277 1-VALERO SUB
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00 345KV CKT 1	1195	0.28078	101.9403	CIMARRON (CIMARON1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9392	GEN560549 1-G06-06 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.27987	101.9339	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.27527	101.9326	MATTHEWSON 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00	TATONGA7	345.00 345KV CKT 1	1195	0.28078	101.9244	CIMARRON (CIMARON2) 345/138/13.8KV TRANSFORMER CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28126	101.9212	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28126	101.9207	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.9185	GEN560209 1-G07-40 0.5750
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28126	101.9183	SPP-WERE-41B
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28103	101.916	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.9133	GEN523277 1-VALERO SUB
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28103	101.9099	AMRN_OUT55
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28078	101.9077	CIMARRON (CIMARON1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.9037	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.9031	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.8971	GEN560329 1-G10-45 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28068	101.8923	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.8918	GEN562032 1-G11-017 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.8873	GEN560209 1-G07-40 0.5750
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28127	101.8861	SPP-WERE-07B
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.8857	GEN560522 1-G05-12 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.8849	GEN515364 1-CENT 11 0.6000
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28103	101.8839	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.8795	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28103	101.8777	AMRN_OUT55
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.8743	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28063	101.8739	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.8737	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.8664	GEN560329 1-G10-45 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.866	GEN562032 1-G11-017 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28068	101.8589	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.854	GEN560522 1-G05-12 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28127	101.8529	SPP-WERE-07B
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.8512	GEN515364 1-CENT 11 0.6000
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.8505	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.8464	GEN524285 1-WILDORADO WIND GEN
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28063	101.8418	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.8371	GEN560170 1-G08-16 34.500
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.8302	GEN560595 1-G06-47 0.6000
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.8294	GEN560592 1-G06-45 0.6000
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.27974	101.8258	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.8257	GEN515393 1-OGEWND2G
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.8179	GEN524285 1-WILDORADO WIND GEN
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.8079	GEN560170 1-G08-16 34.500
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.8014	GEN560595 1-G06-47 0.6000
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28103	101.8009	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.8005	GEN560592 1-G06-45 0.6000
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.27974	101.7959	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.7928	GEN539677 3-A. M. MULLERGREN GENERATOR
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.7903	GEN515393 1-OGEWND2G
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.7774	GEN560180 1-G07-51 0.6000
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.776	GEN562014 1-G11-023 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28103	101.7683	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.7651	GEN560173 1-G08-17 0.5750
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.7599	GEN539677 3-A. M. MULLERGREN GENERATOR
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.7438	GEN562014 1-G11-023 0.6900
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.7419	GEN560180 1-G07-51 0.6000
FDNS	02ALL		2 11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.7342	GEN560173 1-G08-17 0.5750
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.7231	GEN560105 1-G08-22 0.6900
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.7141	GEN539676 1-GRAY COUNTY WIND FARM
FDNS	02ALL		2 11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28105	101.6993	KEO EHV - WEST MEMPHIS 500 500KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.6942	GEN560105 1-G08-22 0.6900
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28070	101.6921	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27851	101.6871	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.6842	GEN531459 2-S2 GENERATOR
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.6834	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.6826	GEN560273 1-ASGI-10-11 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28105	101.6663	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28070	101.6584	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.6561	GEN560353 1-G10-52 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.6547	GEN560273 1-ASGI-10-11 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.6542	GEN531459 2-S2 GENERATOR
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27851	101.654	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.6252	GEN560353 1-G10-52 0.6900
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.5531	GEN560221 1-G07-62-1 0.6900
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.5531	GEN560222 1-G07-62-2 0.6900
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.5531	GEN560223 1-G07-62-3 0.6900
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.5531	GEN560224 1-G07-62-4 0.6900
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28144	101.5383	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.5212	GEN560359 1-G08-51 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.5157	GEN560221 1-G07-62-1 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.5157	GEN560222 1-G07-62-2 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.5157	GEN560223 1-G07-62-3 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.5157	GEN560224 1-G07-62-4 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28144	101.5039	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.4981	GEN560584 1-G06-44-1 0.6000
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.4935	GEN560359 1-G08-51 0.6900
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.4722	GEN560187 1-G10-07 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.4705	GEN560584 1-G06-44-1 0.6000
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.4664	GEN520997 1-MORLND2
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27950	101.4651	CLEVELAND - SOONER 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.454	GEN523926 1-MAJESTC_WND3115.00
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.4451	GEN560187 1-G10-07 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27950	101.4368	CLEVELAND - SOONER 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.4334	GEN560166 1-G07-48 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.4268	GEN523926 1-MAJESTC_WND3115.00
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.426	GEN560570 1-G06-39 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.4234	GEN520997 1-MORLND2
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.4056	GEN560166 1-G07-48 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.3983	GEN560570 1-G06-39 0.6900
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.3962	GEN560279 1-G08-18 0.6900
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.3775	GEN560429 1-G08-29 0.6400
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.365	GEN560279 1-G08-18 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.3408	GEN560429 1-G08-29 0.6400
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.2219	GEN523195 1-Hansford County Switch Station
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.2152	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.2152	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.2132	GEN562023 1-G11-020 0.6900
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.2132	GEN562026 1-G11-019 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.1954	GEN523195 1-Hansford County Switch Station
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.1887	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.1887	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.1876	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28095	101.173	GEN560539 1-G05-17-2 34.500
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.1654	GEN562023 1-G11-020 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.1654	GEN562026 1-G11-019 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28095	101.1545	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.1466	GEN560539 1-G05-17-2 34.500
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28351	101.1226	G11-021T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28351	101.0897	G11-021T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.0409	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.27799	101.032	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	101.0308	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	101.0081	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	100.9975	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.27799	100.9958	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.27572	100.9619	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	100.9589	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	100.9588	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	100.9567	GEN527165 1-Mustang Gen #5
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	100.9548	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.27745	100.9439	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.27572	100.9363	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	100.9314	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	100.9314	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	100.9293	GEN527165 1-Mustang Gen #5
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	100.9273	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.27745	100.9074	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	100.8758	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	100.8665	GEN562049 1-G11-012 0.6900
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	100.8485	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	100.8413	GEN562049 1-G11-012 0.6900
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28602	100.7937	G05-17T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28602	100.7594	G05-17T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28189	100.7257	BORDER 7345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28351	100.714	2008-047T 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	100.7064	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	100.7064	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	100.6794	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	100.6794	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28351	100.6708	2008-047T 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28189	100.6673	BORDER 7345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.27733	100.565	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.27733	100.5338	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	100.392	GEN560536 1-G05-17-1 34.500
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	100.392	GEN560540 1-G05-17-3 34.500
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	100.3669	GEN560536 1-G05-17-1 34.500
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	100.3669	GEN560540 1-G05-17-3 34.500
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28351	100.2658	2008-047T 345.00 - G11-021T 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	100.2378	GEN560585 1-G06-44-2 0.6000
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	100.2135	GEN560585 1-G06-44-2 0.6000
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28351	100.2109	2008-047T 345.00 - G11-021T 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28095	100	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28095	100	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	03ALL	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1		1195	0.21982	100.97	GEN336821 1-GRAND GULF UNIT 1
FDNS	03ALL	2	11G	G11_020	TO->FROM	CIMARRON - MATTHEWSON	345.00 345KV CKT 1		956	0.20773	140.2344	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	03ALL	2	11G	G11_020	FROM->TO	MATTHEWSON	345.00 - NORTHWEST 345KV CKT 1		1195	0.23225	122.7555	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	03ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.29200	103.615	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.29200	103.615	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.29200	103.6141	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.29200	103.6141	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	11G	G11_020	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.28385	100.3479	MINGO - SETAB 345KV CKT 1
FDNS	03ALL	2	11G	G11_020	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.28385	100.3311	MINGO - SETAB 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29308	114.4552	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29313	113.6909	LACYGNE - STILWELL 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29322	113.7151	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29502	115.5315	LACYGNE - NEOSHO 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29353	114.6851	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29350	114.9832	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	00NR	0	12WP	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.35060	110.7164	DBL-MEDLO-WI
FDNS	00NR	0	16WP	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.35084	110.4044	DBL-MEDLO-WI
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.1213	BASE CASE
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29308	113.8051	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29323	113.6365	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	113.7038	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29375	113.4193	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29395	113.7316	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29189	112.5043	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29408	114.6172	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29273	113.8148	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29672	113.1536	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29648	113.7365	DELAWARE - NEOSHO 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29354	112.8619	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29360	113.3525	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29459	114.5962	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29459	114.5859	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29449	114.5036	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29449	114.463	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29552	115.3156	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29552	115.2704	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.31477	124.409	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.31477	118.5942	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29702	115.7748	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29546	115.2822	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29466	114.8743	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29392	114.4948	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29459	114.7413	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	116.1995	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29392	114.5679	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29392	114.4641	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29392	114.6586	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29459	114.5442	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	115.114	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29418	114.4341	CHILDRESS - LAKE PAULINE 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29366	114.5014	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29268	113.7052	CLEVELAND - SOONER 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29644	114.9091	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29644	114.942	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29427	114.607	MARSHALL - WOODRING 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30477	115.7888	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29608	114.651	G11-0077 345.00 - WOODRING 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29464	114.6567	KNOBHILL - SALINE 69KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29464	114.6554	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29464	114.5704	GOLTRY - IMO 69KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29464	114.5874	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29437	114.436	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29427	114.5985	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29458	113.7194	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29458	113.6576	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29398	113.7747	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29644	115.0167	DOVER SW - HENESSEY 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30042	117.0547	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30205	117.216	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.1336	GEN509406 1-WELSH #3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4534	GEN509408 1-WILKES #2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.9181	GEN509409 1-WILKES #3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.8488	GEN511836 1-NORTHEASTERN STATION #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9388	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9388	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.662	GEN511839 1-NORTHEASTERN STATION #2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.6874	GEN511840 1-NORTHEASTERN STATION #3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.7157	GEN511841 1-NORTHEASTERN STATION #4
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.5654	GEN511843 1-RIVERSIDE STATION #2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7224	GEN511851 1-COMANCHE #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5474	GEN511852 1-COMANCHE #2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5484	GEN511853 1-COMANCHE #3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7364	GEN511938 1-OEC STEAM # 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7674	GEN511953 G-COGENTRIX GAS # 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7668	GEN511954 S-COGENTRIX STEAM # 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.3837	GEN512688 2-GRDA1 GSU2 22
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.5192	GEN512689 1-GRDA1 GSU1 22
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.5565	GEN514805 1-SOONER UNIT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.8774	GEN514806 1-SOONER UNIT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.5867	GEN514899 1-REDBUD1S
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.5868	GEN514900 1-REDBUD2S
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0647	GEN514905 1-REDBUD3S
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.7967	GEN514910 2-REDBUD GEN
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.7967	GEN514911 2-REDBUD GEN
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9602	GEN514912 2-REDBUD GEN
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.6383	GEN514998 1-MCCLAIN UNIT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.6383	GEN514999 1-MCCLAIN UNIT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9006	GEN515000 1-MCCLAIN UNIT 3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.1547	GEN515040 1-SEMINOLE 1G
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.9443	GEN515041 1-SEMINOLE 2G
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.2043	GEN515042 1-SEMINOLE 3G
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.2905	GEN515223 1-MUSKOGEE 4G
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.2416	GEN515225 1-MUSKOGEE 5G
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.7524	GEN515226 1-MUSKOGEE 6G
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.078	GEN515266 1-AES 1G
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.078	GEN515267 1-AES 2G
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.5388	GEN515364 1-CENT 11 0.6000
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.172	GEN515389 1-TLGAWND1 34.500
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.1909	GEN515393 1-OGEWND2G
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.8766	GEN515397 1-OUSPR1 34.500
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7705	GEN515443 1-MNCOWND1 34.500
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.0657	GEN515790 1-FPLWND2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7194	GEN520811 1-ANADRK4
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.781	GEN520812 1-ANADRK5
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7809	GEN520813 1-ANADRK6
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.1075	GEN520922 1-SLEEPING 138.00
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.3139	GEN520947 1-HUGO1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.3566	GEN520997 1-MORLND2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.642	GEN521129 1-BLUCANS 4 138.00
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.5395	GEN523103 1-NOBLE_WND 3115.00
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.3872	GEN523461 1-BLACKHAWK GEN #1



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.3873	GEN523462 1-BLACKHAWK GEN #2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.9244	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.918	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.9184	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.734	GEN524285 1-WILDORADO WIND GEN
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.0331	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.0083	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.274	GEN527161 1-MUSTANG GEN #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.274	GEN527162 1-MUSTANG GEN #2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.228	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.2729	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.2743	GEN527165 1-Mustang GEN #5
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.8071	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.9984	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.9984	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	112.5326	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.2877	GEN531447 1-HOLCOMB GENERATOR
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5403	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5395	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5338	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.0652	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.1752	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.8207	GEN539677 3-A. M. MULLERGEN GENERATOR
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6787	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7856	GEN541151 3-SIBLEY GENERATING UNIT #3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.011	GEN542951 5-HAWTHORN UNIT #5
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4595	GEN542952 1-MONTROSE UNIT #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.5406	GEN542955 1-LACYGNE UNIT #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.4336	GEN542956 2-LACYGNE UNIT #2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0649	GEN542957 1-IATAN UNIT #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.2854	GEN542962 2-IATAN UNIT #2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5618	GEN546702 1-NM GEN N1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0181	GEN547649 1-ASBURY UNIT #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.8163	GEN547656 1-STATE LINE UNIT #2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.928	GEN549890 1-SOUTHWEST 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7473	GEN549893 2-SOUTHWEST 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5248	GEN549899 5-JAMES RIVER 5
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6608	GEN560105 1-G08-22 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	107.6617	GEN560115 1-G08-44 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4638	GEN560118 1-G08-46 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.2783	GEN560121 1-G08-47 0.5750
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.1708	GEN560155 1-G10-11 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.4668	GEN560166 1-G07-48 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5217	GEN560169 1-G08-13 0.5750
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7491	GEN560170 1-G08-16 34.500
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6645	GEN560173 1-G08-17 0.5750
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	104.5443	GEN560175 1-G07-44 0.5750
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.9728	GEN560180 1-G07-51 0.6000
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.4188	GEN560190 1-G10-08 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.763	GEN560209 1-G07-40 0.5750
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.4861	GEN560221 1-G07-62-1 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.4861	GEN560222 1-G07-62-2 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.4861	GEN560223 1-G07-62-3 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	111.4861	GEN560224 1-G07-62-4 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.8154	GEN560238 1-G10-09 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6846	GEN560256 1-G10-14-1 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6753	GEN560257 1-G10-14-2 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.4086	GEN560279 1-G08-18 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	104.4901	GEN560282 1-G08-19 0.6000
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7041	GEN560286 1-G10-01-1WTG 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7041	GEN560287 1-G10-01-2WTG 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.851	GEN560323 1-G10-40 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7657	GEN560329 1-G10-45 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.5877	GEN560353 1-G10-52 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.4941	GEN560359 1-G08-51 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6793	GEN560371 1-G07-46 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	110.9812	GEN560429 1-G08-29 0.6400
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7621	GEN560522 1-G05-12 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.8201	GEN560549 1-G06-06 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.4534	GEN560570 1-G06-39 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.8112	GEN560585 1-G06-44-2 0.6000
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6787	GEN560586 1-G06-44-3 0.6000
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7236	GEN560592 1-G06-45 0.6000
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7243	GEN560595 1-G06-47 0.6000
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.3106	GEN560598 1-G06-49 0.6000
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.8054	GEN560623 1-ASGI-10-01 0.6000
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1445	GEN560636 1-ASGI-10-06 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1447	GEN560639 1-ASGI-10-07 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5357	GEN560645 1-ASGI-10-09 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	107.6814	GEN560648 1-G07-21 0.5750
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.7736	GEN560687 1-G11-007 0.5750
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	102.0997	GEN562010 1-G11-024 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.6905	GEN562014 1-G11-023 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.3874	GEN562017 1-G11-022 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.3324	GEN562020 1-G11-021 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	109.0844	GEN562023 1-G11-020 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	109.0844	GEN562026 1-G11-019 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7775	GEN562032 1-G11-017 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.5485	GEN562042 1-G11-014 0.6900
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7239	GEN599891 1-OKLAUN
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.8845	GEN640009 1-COOPER NUCLEAR STATION
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.4734	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.5306	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5529	GEN645001 1-FORT CALHOUN 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6467	GEN645011 1-NEBRASKA CITY 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7373	GEN645012 2-NEBRASKA CITY 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29480	114.5481	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29678	114.7186	DEWEY - IODINE 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30390	117.4708	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30042	117.1278	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30205	117.1937	IMO TAP - MEN TAP 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29488	115.1	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29678	114.7697	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29647	113.8046	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30390	120.129	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29443	114.6438	CIMARRON - EL RENO 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30390	117.1368	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.28800	110.4622	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.28049	112.2956	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29065	113.3083	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29608	116.8522	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29228	113.5231	ARCADIA - HORSESHOE LAKE 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29228	113.5246	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29301	114.6167	MORRISON - STILLWATER 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29297	114.4568	KINZE - MCELROY 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29297	114.5001	MCELROY - STILLWATER 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29381	113.6992	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30141	116.1387	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.31641	121.7891	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.31641	121.7891	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29458	113.6579	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29480	114.9727	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	114.5399	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	114.5385	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29399	114.4261	CALUMET - WATONGA SW 69KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29380	114.4795	CANTON - OKEENE 69KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29380	114.5056	CANTON - TALOGA 69KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29873	116.477	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29873	116.4448	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29401	114.4986	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29401	114.5148	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	114.5113	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29811	115.945	DOVER SW - OKEENE 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	114.5405	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29401	114.4449	HYDRO - SICKLES 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29401	114.4739	HYDRO - WEATHERFORD 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29807	116.2509	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29546	115.0407	MOREWOOD SW - RHWIN4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29807	116.2406	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29424	114.5903	OKEENE - WATONGA SW 69KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	114.5591	PUTNAM - TALOGA 69KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29607	114.576	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	115.3655	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29504	115.305	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30213	118.4779	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	115.114	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29366	114.5426	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29366	114.5625	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29607	115.0492	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	114.649	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29318	114.5227	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29329	114.6816	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.31477	117.8341	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29350	114.6475	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29400	114.8553	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29715	117.4119	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29571	115.9472	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29400	115.2406	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29634	115.7051	HOLCOMB - SETAB 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29734	116.7124	MINGO - SETAB 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29787	116.7367	MINGO - RED WILLOW 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29947	117.1335	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29715	116.934	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29351	114.4219	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29359	114.5429	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29390	114.5486	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29824	114.9901	BENTON - ROSE HILL 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30106	116.2582	BENTON - WICHITA 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29473	115.1159	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29473	114.7245	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30336	113.5032	G08-127T 345.00 - ROSE HILL 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30477	113.7066	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30773	121.1079	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30773	121.1079	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29320	114.6488	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29473	114.9883	G05-13T 345.00 - LATHAMS7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29426	115.1601	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	115.0618	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29386	114.5356	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29412	115.1411	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29320	114.6899	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	113.704	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30477	115.0941	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.30172	115.99	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29396	114.9918	AXTELL - PAULINE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29511	114.7956	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29323	114.5705	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29318	114.4376	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29343	114.4248	MCCOOL - MOORE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29343	114.5422	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29390	114.8958	MOORE - PAULINE 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29389	115.3222	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29313	113.8185	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29312	114.4524	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29318	114.4457	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29321	113.7259	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29332	113.4652	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29323	113.5597	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	116.2003	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29366	114.5003	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29488	115.0853	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29237	113.188	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29243	113.3841	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29335	114.5329	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29492	114.6808	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29410	113.6683	WWRDEHV7 345.00 (WWRDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29410	113.7651	WWRDEHV7 345.00 (WWRDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29348	114.4307	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	115.0265	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29358	114.5116	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29319	114.4389	CLINTON - MONTROSE 161KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29347	114.476	BROOKLINE - MORGAN 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.1866	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.1866	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29331	114.4211	RED WILLOW (R.WIL T1) 345/115/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29307	114.5694	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29328	113.6649	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29324	114.5594	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29316	114.4465	STEGALL - WAYSIDE 230KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	113.7432	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29306	115.0068	DBL-COM-MEDL
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.35388	145.5011	DBL-MEDLO-WI
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29930	114.8759	DBL-HIT-G084
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.31666	115.5908	DBL-G0847-WO

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.37372	141.424	DBL-WOOD-MED
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29679	115.0008	OGE3TERM1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29306	114.6173	OGE3TERM2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29459	113.7005	OGE3TERM7
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	114.4506	OGE3TERM10
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29288	113.7901	OGE3TERM14
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	115.114	SPP-SWPS-02
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29618	114.71	SPP-SWPS-02A
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29366	114.4943	SPP-SWPS-T54
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	115.1427	SPP-MKEC-05
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	115.4092	SPP-MKEC-08
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29459	113.5877	SPP-WERE-07B
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29491	115.1457	SPP-WERE-34
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29458	113.6564	SPP-WERE-41B
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29352	115.0281	WRTOD400
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29397	113.7037	AI12
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29328	113.6599	AMRN_OUT55
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29359	114.4852	OVERTON-TRF
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29313	114.6374	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4428	GEN300001 1-THOMAS HILL UNIT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6674	GEN300002 1-THOMAS HILL UNIT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.8784	GEN300003 1-THOMAS HILL UNIT 3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.8189	GEN300006 1-NEW MADRID UNIT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.8133	GEN300007 1-NEW MADRID UNIT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6511	GEN300016 1-1G1GPDEL 18.000
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6511	GEN300017 1-1G2GPDEL 18.000
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7919	GEN300031 1-CHOUTEAU CTG 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7919	GEN300032 1-CHOUTEAU CTG 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1663	GEN318007 1-5MOROW161 161.00
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1482	GEN334030 1-FRONTIER UNIT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0454	GEN334031 1-FRONTIER UNIT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.616	GEN334070 1-LEWIS CREEK 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5595	GEN334232 1-PELGNRD U1 13.800
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5595	GEN334233 1-PELGNRD U2 13.800
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.45	GEN334282 1-SAM RAYBURN 4
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5481	GEN334298 1-CYPR U1 13.800
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5481	GEN334299 1-CYPR U2 13.800
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.562	GEN334335 1-TOLEDO BEND
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7492	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9965	GEN334392 1-EXXON MOBIL IPP 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.1387	GEN334440 1-SABINE UNIT 4
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.7266	GEN334441 1-SABINE UNIT 5
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.456	GEN334458 1-CONOCO UNIT#3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5871	GEN334467 1-DUPONT UNIT#1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9924	GEN335075 1-DYNEGY#1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.032	GEN335076 1-DYNEGY UNIT2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6299	GEN335137 C4-PPG
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7812	GEN335201 1-NELSON UNIT 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7191	GEN335202 1-NELSON UNIT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0557	GEN335203 1-NELSON UNIT 3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.0157	GEN335204 1-NELSON UNIT 4
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.3449	GEN335206 1-NELSON UNIT 6
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6599	GEN335545 1-DOW AEP UNITS
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.563	GEN335546 3-DOW COGEN
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6624	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.695	GEN335612 1-WILLOW GLENN UNIT#2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4341	GEN335640 1-ENCO
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.516	GEN335644 1-EXXON UNITS
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	120.3661	GEN335831 1-RIVERBEND UNIT#1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0363	GEN336167 1-GULF OXY U1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0363	GEN336168 1-GULF OXY U2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0363	GEN336169 1-GULF OXY U3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.9326	GEN336170 1-GULF OXY U4
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5362	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5362	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	118.0841	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.7636	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	121.9255	GEN336821 1-GRAND GULF UNIT
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.5263	GEN336831 1-BAXTER WILSON SES
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0779	GEN337006 1-DUKE MCADAMS G1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0779	GEN337007 1-DUKE MCADAMS G2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0574	GEN337008 1-DUKE MCADAMS S1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.9677	GEN337041 1-GERALD ANDRUS
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6601	GEN337124 5-LS POWER BATESVILLE
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0913	GEN337125 6-LS POWER BATESVILLE
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0158	GEN337421 1-OUCHITA CTG1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6832	GEN337422 1-OUCHITA STG1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0158	GEN337423 1-OUCHITA CTG2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6832	GEN337424 1-OUCHITA STG2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0158	GEN337425 1-OUCHITA CTG3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6832	GEN337426 1-OUCHITA STG3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1295	GEN337428 1-PERYVILLE UNIT #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1022	GEN337429 1-PERYVILLE UNIT #2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1295	GEN337430 1-PERYVILLE UNIT #3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1022	GEN337432 1-PERYVILLE UNIT #5
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	118.9568	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	118.6065	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	119.7455	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	120.8549	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.835	GEN337954 1-LYNCH UNIT #3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	118.6959	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	118.7654	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.9346	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9291	GEN338500 1-MCCLELLAN UNIT #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7402	GEN338510 1-1S1KNWRI
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4283	GEN338511 1-1C7KNWRI
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7806	GEN338513 1-BAILEY UNIT #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.5746	GEN500915 3-WESTERN KRAFT
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	118.6482	GEN501801 1-DOLET HILLS UNIT1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.3869	GEN501812 1-RODEMACHER UNIT 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.863	GEN501813 1-RODEMACHER UNIT 3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1357	GEN501823 1-TECHE UNIT 3
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.7222	GEN501910 1-ACADIA UNIT ST1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.0218	GEN501911 1-ACADIA UNIT CT1A
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.714	GEN503900 1-FITZHUGH CT1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.2431	GEN505432 1-SIKESTON
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.6794	GEN506749 1-EASTMAN GENERATION A
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4277	GEN506750 1-EASTMAN GENERATION B
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.9501	GEN506752 1-LEBROCK GAS 1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	114.4788	GEN506753 1-LEBROCK GAS 2
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1689	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1689	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	115.1582	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	116.9357	GEN509394 1-FLINT CREEK
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.8826	GEN509403 1-PIRKEY GENERATION
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.1334	GEN509404 1-WELSH #1
FDNS	01NR	0	11G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.29305	117.1335	GEN509405 1-WELSH #2
FDNS	00NR	2	12SP	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.30942	114.2931	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR	2	12SP	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.34809	100.4377	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00NR	2	12WP	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.28695	124.9704	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR	2	12WP	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.32454	111.1275	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00NR	2	12WP	G11_020	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.43312	100	DBL-MEDLO-WI
FDNS	00NR	2	12WP	G11_020	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.43312	100	DBL-MEDLO-WI
FDNS	00NR	2	16SP	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.30062	124.0189	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR	2	16SP	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.34169	108.3724	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00NR	2	16WP	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.28953	123.7113	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR	2	16WP	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.32873	110.9874	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01NR	2	11G	G11_020	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.29050	156.9428	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01NR	2	11G	G11_020	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.33065	138.8338	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01NR	2	11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.30343	117.8475	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01NR	2	11G	G11_020	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.30343	117.8475	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FNSL-Blown up	3	0	11G	G11_021		Non Converged Contingency	0	0.05894	-	DBL-COM-MEDL
FNSL-Blown up	3	0	11G	G11_021		Non Converged Contingency	0	0.22749	-	DBL-MEDLO-WI
FNSL-Blown up	3	2	11G	G11_021		Non Converged Contingency	0	0.05844	-	DBL-COM-MEDL
FNSL-Blown up	3	2	11G	G11_021		Non Converged Contingency	0	0.20975	-	DBL-MEDLO-WI
FNSL-Blown up	3	3	11G	G11_021		Non Converged Contingency	0	0.05854	-	DBL-COM-MEDL
FNSL-Blown up	3	3	11G	G11_021		Non Converged Contingency	0	0.20959	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G11_021		Non Converged Contingency	1195	0.18053	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_021		Non Converged Contingency	1195	0.18053	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_021		Non Converged Contingency	1195	0.18053	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_021		Non Converged Contingency	0	0.22890	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G11_021		Non Converged Contingency	0	0.18684	-	DBL-WOOD-MED
FNSL-Blown up	02ALL	0	11G	G11_021		Non Converged Contingency	0	0.22357	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	G11_021		Non Converged Contingency	0	0.41637	-	DBL-G0847-WO
FNSL-Blown up	02ALL	2	11G	G11_021		Non Converged Contingency	0	0.57276	-	DBL-HIT-G084
FNSL-Blown up	02ALL	2	11G	G11_021		Non Converged Contingency	0	0.42708	-	DBL-G0847-WO
FNSL-Blown up	02ALL	3	11G	G11_021		Non Converged Contingency	0	0.57314	-	DBL-HIT-G084
FNSL-Blown up	02ALL	3	11G	G11_021		Non Converged Contingency	0	0.42755	-	DBL-G0847-WO
FNSL-Blown up	02G11_021	0	11G	G11_021		Non Converged Contingency	0	0.22594	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	0	11G	G11_021		Non Converged Contingency	1195	0.17139	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_021		Non Converged Contingency	1195	0.17139	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_021		Non Converged Contingency	1195	0.17139	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_021		Non Converged Contingency	1792	0.06447	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_021		Non Converged Contingency	1328	0.07223	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_021		Non Converged Contingency	1195	0.05564	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_021		Non Converged Contingency	1195	0.05564	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_021		Non Converged Contingency	0	0.03355	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	0	11G	G11_021		Non Converged Contingency	0	0.03355	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	0	11G	G11_021		Non Converged Contingency	0	0.20117	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	0	11G	G11_021		Non Converged Contingency	0	0.41072	-	DBL-G0847-WO
FNSL-Blown up	03ALL	2	11G	G11_021		Non Converged Contingency	1195	0.21664	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_021		Non Converged Contingency	1195	0.05280	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_021		Non Converged Contingency	0	0.03430	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	2	11G	G11_021		Non Converged Contingency	0	0.03430	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	2	11G	G11_021		Non Converged Contingency	0	0.18519	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G11_021		Non Converged Contingency	1792	0.21827	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_021		Non Converged Contingency	1195	0.05279	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_021		Non Converged Contingency	1195	0.05279	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	03ALL		3	11G	G11_021	Non Converged Contingency	0	0.03443	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		3	11G	G11_021	Non Converged Contingency	0	0.03443	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		3	11G	G11_021	Non Converged Contingency	0	0.18506	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3	11G	G11_021	Non Converged Contingency	0	0.42203	-	DBL-G0847-WO
FNSL-Blown up	03ALL		4	11G	G11_021	Non Converged Contingency	1792	0.21820	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4	11G	G11_021	Non Converged Contingency	1792	0.21820	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4	11G	G11_021	Non Converged Contingency	1792	0.06086	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4	11G	G11_021	Non Converged Contingency	1195	0.05208	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		4	11G	G11_021	Non Converged Contingency	1195	0.05208	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		4	11G	G11_021	Non Converged Contingency	1792	0.09191	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL		4	11G	G11_021	Non Converged Contingency	1792	0.09191	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL		4	11G	G11_021	Non Converged Contingency	1195	0.05208	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4	11G	G11_021	Non Converged Contingency	956	0.05166	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FNSL-Blown up	03ALL		4	11G	G11_021	Non Converged Contingency	0	0.03324	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		4	11G	G11_021	Non Converged Contingency	0	0.18383	-	DBL-MEDLO-WI
FNSL	02ALL		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22071	102.7649	DBL-SPRVL-CO
FNSL	02ALL		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22071	102.6977	DBL-SPRVL-CO
FDNS	1		0	11G	G11_021	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23134	138.0853	DBL-MEDLO-WI
FDNS	1		0	11G	G11_021	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.23107	133.7625	DBL-WOOD-MED
FDNS	1		0	11G	G11_021	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21186	109.3945	DBL-HIT-G084
FDNS	2		0	11G	G11_021	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22623	116.9574	DBL-MEDLO-WI
FDNS	2		0	11G	G11_021	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22621	105.8729	DBL-WOOD-MED
FDNS	2		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28123	121.0025	DBL-MEDLO-WI
FDNS	2		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28123	121.0023	DBL-MEDLO-WI
FDNS	2		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27901	107.3592	DBL-WOOD-MED
FDNS	2		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27901	107.3592	DBL-WOOD-MED
FDNS	2		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23827	105.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23827	105.0432	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0	11G	G11_021	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21294	139.221	DBL-HIT-G084
FDNS	01ALL		0	11G	G11_021	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21294	139.221	DBL-HIT-G084
FDNS	02ALL		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22007	102.801	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22007	102.7725	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22018	101.9173	LACYGNE - STILWELL 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22018	101.8867	LACYGNE - STILWELL 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	101.9765	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	101.9452	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22048	104.1295	LACYGNE - NEOSHO 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22048	104.1056	LACYGNE - NEOSHO 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22100	103.0816	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22100	103.0547	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22030	102.7825	CRAIG - STRANGER CREEK 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22030	102.7529	CRAIG - STRANGER CREEK 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22089	103.4234	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22089	103.3981	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22019	102.7611	ROSE HILL - WOLF CREEK 345KV CKT 1
FDNS	02ALL		0	11G	G11_021	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22444	123.3172	DBL-WOOD-MED
FDNS	02ALL		0	11G	G11_021	FROM->TO GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.24604	101.1175	DBL-WOOD-MED
FDNS	02ALL		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27917	144.3307	DBL-MEDLO-WI
FDNS	02ALL		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27917	144.3306	DBL-MEDLO-WI
FDNS	02ALL		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27684	128.378	DBL-WOOD-MED
FDNS	02ALL		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27684	128.378	DBL-WOOD-MED
FDNS	02ALL		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23614	117.5903	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23614	117.5627	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23614	116.5021	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23614	116.4728	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23479	112.2816	MED-LDG5 345.00 - WICHITA 345KV CKT 1



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23479	112.2816	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23479	112.2815	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23479	112.2815	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23756	110.92	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23756	110.8274	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23705	110.1515	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23705	110.1515	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23705	110.1381	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23705	110.1381	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23054	109.5072	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23054	109.3497	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	108.6311	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	108.6109	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22436	108.4247	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22436	108.424	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22436	108.3668	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22436	108.3661	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22976	108.0719	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22976	108.0344	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22888	108.0146	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22888	107.974	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	107.9721	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	107.9518	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22698	107.6583	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22449	107.6363	SPP-SWPS-03
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22698	107.6331	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22449	107.5843	SPP-SWPS-03
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	107.434	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	107.4121	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22743	107.2905	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22743	107.276	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22436	107.2237	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22436	107.1703	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	107.0557	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	107.0341	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22698	106.9542	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22698	106.9278	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22743	106.9071	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22743	106.8918	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22436	106.8453	SPP-SWPS-02
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22436	106.8453	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22436	106.8453	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22436	106.7965	SPP-SWPS-02
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22436	106.7965	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22436	106.7965	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22743	106.4995	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22743	106.4824	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22436	106.4708	SPP-SWPS-02A
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.23892	106.4431	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22436	106.42	SPP-SWPS-02A
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.23892	106.3834	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	106.3071	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	106.2837	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	106.2734	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	106.2524	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	106.0462	GEN338146 1-INDEPENDENCE UNIT #2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22278	106.0354	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	106.0222	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	106.0212	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22711	106.0084	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	105.9983	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22278	105.9911	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	105.9825	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22711	105.9704	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	105.9573	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22548	105.8922	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22662	105.8848	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22548	105.8743	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22662	105.868	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22662	105.8549	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22662	105.8381	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22548	105.7962	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22548	105.7783	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	105.7178	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	105.6965	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	105.6286	GEN509403 1-PIRKEY GENERATION
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	105.6064	GEN509403 1-PIRKEY GENERATION
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	105.5757	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	105.5513	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22393	105.5435	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22393	105.5178	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	105.4831	GEN501813 1-RODEMACHER UNIT 3
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	105.4603	GEN515226 1-MUSKOGEE 6G
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	105.4591	GEN501813 1-RODEMACHER UNIT 3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	105.4379	GEN515226 1-MUSKOGEE 6G
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	105.4263	GEN337041 1-GERALD ANDRUS
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	105.4225	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	105.4011	GEN337041 1-GERALD ANDRUS
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22726	105.3987	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	105.3977	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22726	105.3818	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	105.3098	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22447	105.2896	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22476	105.2847	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	105.2833	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22447	105.2717	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22476	105.2596	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22677	105.2428	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22677	105.2052	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22677	105.2049	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	105.1953	GEN520947 1-HUGO1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22424	105.192	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	105.1732	GEN520947 1-HUGO1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22424	105.172	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22677	105.1694	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22424	105.1447	CEDARDALE - OKEENE 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22424	105.1248	CEDARDALE - OKEENE 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	105.1048	GEN336831 1-BAXTER WILSON SES
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	105.0947	GEN501812 1-RODEMACHER UNIT 2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	105.0794	GEN336831 1-BAXTER WILSON SES
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	105.0736	GEN515223 1-MUSKOGEE 4G
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	105.0699	GEN501812 1-RODEMACHER UNIT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	105.0502	GEN515223 1-MUSKOGEE 4G
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	105.0471	GEN335206 1-NELSON UNIT 6
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	105.0332	GEN515225 1-MUSKOGEE 5G
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	105.0221	GEN335206 1-NELSON UNIT 6
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	105.0136	GEN509406 1-WELSH #3
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	105.0135	GEN509404 1-WELSH #1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	105.0135	GEN509405 1-WELSH #2
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	105.0098	GEN515225 1-MUSKOGEE 5G
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.9901	GEN509406 1-WELSH #3
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.99	GEN509404 1-WELSH #1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.99	GEN509405 1-WELSH #2
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.8944	GEN334440 1-SABINE UNIT 4
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.8692	GEN334440 1-SABINE UNIT 4
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.8067	GEN509394 1-FLINT CREEK
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.7809	GEN509394 1-FLINT CREEK
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.7793	GEN335204 1-NELSON UNIT 4
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.7538	GEN335204 1-NELSON UNIT 4
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23372	104.7517	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23054	104.7208	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23372	104.7175	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23054	104.6626	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.66	GEN511841 1-NORTHEASTERN STATION #4
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.6358	GEN511840 1-NORTHEASTERN STATION #3
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.6342	GEN511841 1-NORTHEASTERN STATION #4
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.6266	GEN511839 1-NORTHEASTERN STATION #2
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.61	GEN511840 1-NORTHEASTERN STATION #3
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.6008	GEN511839 1-NORTHEASTERN STATION #2
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.5547	GEN334441 1-SABINE UNIT 5
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.5289	GEN334441 1-SABINE UNIT 5
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.5028	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.4947	GEN512689 1-GRDA1 GSU1 22
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.4762	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22385	104.4715	DOVER SW - OKEENE 138KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.4689	GEN512689 1-GRDA1 GSU1 22
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.4627	GEN560282 1-G08-19 0.6000
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22385	104.4507	DOVER SW - OKEENE 138KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.4452	GEN560282 1-G08-19 0.6000
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.3972	GEN562010 1-G11-024 0.6900
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.3868	GEN562010 1-G11-024 0.6900
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.3779	GEN512688 2-GRDA1 GSU2 22
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22447	104.3746	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22447	104.352	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.3518	GEN512688 2-GRDA1 GSU2 22
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.3498	GEN560175 1-G07-44 0.5750
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.3451	GEN560175 1-G07-44 0.5750
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22073	104.3329	CIMARRON - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22073	104.3113	CIMARRON - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22177	104.2796	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	104.267	GEN515042 1-SEMINOLE 3G
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22177	104.2473	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	104.2432	GEN515042 1-SEMINOLE 3G
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22230	104.2324	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22207	104.2077	SPP-MKEC-08
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22230	104.205	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22071	104.1873	DBL-COM-MEDL
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22207	104.1796	SPP-MKEC-08

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22230	104.1777	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22205	104.1596	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22182	104.1577	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22230	104.1516	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22205	104.129	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22182	104.1286	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22434	104.0892	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22434	104.0566	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	104.0388	GEN515041 1-SEMINOLE 2G
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	104.0156	GEN515040 1-SEMINOLE 1G
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	104.0143	GEN515041 1-SEMINOLE 2G
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.9906	GEN515040 1-SEMINOLE 1G
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22202	103.9715	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.9576	GEN509409 1-WILKES #3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22202	103.9405	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.9322	GEN509409 1-WILKES #3
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22281	103.9133	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22281	103.8857	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.8703	GEN336170 1-GULF OXY U4
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.8427	GEN336170 1-GULF OXY U4
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22281	103.8391	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.8308	GEN514910 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.8308	GEN514911 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22207	103.8113	SPP-WERE-34
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22281	103.8111	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22207	103.8076	SPP-MKEC-05
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.805	GEN514910 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.805	GEN514911 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22207	103.7861	SPP-WERE-34
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22207	103.7823	SPP-MKEC-05
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.7648	GEN514998 1-MCCLAIN UNIT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.7648	GEN514999 1-MCCLAIN UNIT 2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.7639	GEN560115 1-G08-44 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.7552	GEN560648 1-G07-21 0.5750
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.7442	GEN560115 1-G08-44 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22177	103.7437	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.7401	GEN560648 1-G07-21 0.5750
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.7397	GEN514998 1-MCCLAIN UNIT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.7397	GEN514999 1-MCCLAIN UNIT 2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22193	103.7371	AXTELL - PAULINE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22402	103.7194	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22177	103.7123	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22193	103.7084	AXTELL - PAULINE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.7066	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.7057	GEN511843 1-RIVERSIDE STATION #2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22402	103.6952	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.6792	GEN511843 1-RIVERSIDE STATION #2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.6712	GEN300006 1-NEW MADRID UNIT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.6695	GEN334070 1-LEWIS CREEK 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.6651	GEN300007 1-NEW MADRID UNIT 2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.6571	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.6558	GEN514899 1-REDBUD1S
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.6558	GEN514900 1-REDBUD2S
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22207	103.6458	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.6429	GEN334070 1-LEWIS CREEK 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.6424	GEN300006 1-NEW MADRID UNIT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	103.6362	GEN300007 1-NEW MADRID UNIT 2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	103.6294	GEN514899 1-REDBUD1S
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	103.6294	GEN514900 1-REDBUD2S
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22157	103.629	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22207	103.6205	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22157	103.6026	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22157	103.6022	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22182	103.6007	MOORE - PAULINE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22325	103.585	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22157	103.5763	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22182	103.5717	MOORE - PAULINE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22325	103.5657	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22325	103.5599	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22073	103.5576	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22227	103.5522	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22325	103.5409	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22073	103.5313	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22227	103.5293	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22120	103.4834	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22092	103.477	WRTOD400
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22092	103.4519	WRTOD400
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22120	103.4465	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22227	103.4221	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22227	103.398	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22280	103.3871	DOVER SW - HENESSEY 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22164	103.3776	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22280	103.3604	DOVER SW - HENESSEY 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22851	103.3581	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	103.3502	GEN560639 1-ASGI-10-07 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	103.3489	GEN560636 1-ASGI-10-06 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22164	103.348	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22052	103.3451	GRACMNT7 345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22305	103.3412	OGE3TERM1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	103.3218	GEN560639 1-ASGI-10-07 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	103.3206	GEN560636 1-ASGI-10-06 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22851	103.3199	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22059	103.3198	TRF-STEGALL
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22059	103.3176	STEGALL TY 345/230KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22059	103.3168	NEB01WAPAB3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22052	103.3159	GRACMNT7 345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22059	103.3147	STEGALL - STEGALL TRANSFORMER 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	103.314	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	103.314	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22305	103.3137	OGE3TERM1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22116	103.3093	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	103.3051	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	103.2987	GEN334030 1-FRONTIER UNIT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22280	103.2903	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22059	103.2902	TRF-STEGALL
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22095	103.2899	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22059	103.2878	STEGALL TY 345/230KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22059	103.2871	NEB01WAPAB3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	103.2865	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	103.2865	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22059	103.285	STEGALL - STEGALL TRANSFORMER 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22116	103.2807	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.2776	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.2711	GEN334030 1-FRONTIER UNIT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22280	103.2631	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22095	103.2623	MCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22095	103.259	KIRBY SWITCHING STATION - MCLELLAN SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.2514	GEN501823 1-TECHE UNIT 3
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22280	103.2484	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.2402	GEN318007 1-5MOROW161 161.00
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.2397	GEN505432 1-SIKESTON
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22151	103.2366	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.2324	GEN337428 1-PERYVILLE UNIT #1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.2324	GEN337430 1-PERYVILLE UNIT #3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22095	103.2315	MCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.2228	GEN501823 1-TECHE UNIT 3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22280	103.2208	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.2206	GEN514905 1-REDBUD3S
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22151	103.217	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.2119	GEN334031 1-FRONTIER UNIT 2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.2115	GEN318007 1-5MOROW161 161.00
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.2108	GEN337429 1-PERYVILLE UNIT #2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.2108	GEN337432 1-PERYVILLE UNIT #5
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.2103	GEN505432 1-SIKESTON
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22098	103.2091	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22151	103.2086	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.2043	GEN337428 1-PERYVILLE UNIT #1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.2043	GEN337430 1-PERYVILLE UNIT #3
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.1972	GEN515266 1-AES 1G
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.1972	GEN515267 1-AES 2G
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.1928	GEN514905 1-REDBUD3S
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22151	103.1889	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.1883	GEN335203 1-NELSON UNIT 3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.1841	GEN334031 1-FRONTIER UNIT 2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.1827	GEN337429 1-PERYVILLE UNIT #2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.1826	GEN337432 1-PERYVILLE UNIT #5
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22095	103.1819	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22098	103.1789	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22095	103.1787	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22172	103.1777	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.1745	GEN560687 1-G11-007 0.5750
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22116	103.1741	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.1739	GEN337125 6-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22095	103.1715	SPP-SWPS-T54
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22154	103.1707	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.1692	GEN515266 1-AES 1G
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.1692	GEN515267 1-AES 2G
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.1663	GEN335076 1-DYNEGY UNIT2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.1653	GEN337006 1-DUKE MCADAMS G1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.1653	GEN337007 1-DUKE MCADAMS G2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.1619	GEN560323 1-G10-40 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22116	103.16	CAN_GA54 138.00 - HINTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.1596	GEN335203 1-NELSON UNIT 3
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.1555	GEN501911 1-ACADIA UNIT CT1A
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.1553	GEN336167 1-GULF OXY U1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.1553	GEN336168 1-GULF OXY U2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.1553	GEN336169 1-GULF OXY U3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22172	103.1522	ELK CITY - RHWIND4 138.00 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22095	103.1511	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.1496	GEN337008 1-DUKE MCADAMS S1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1486	GEN560687 1-G11-007 0.5750
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22095	103.1479	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.1469	GEN334392 1-EXXON MOBIL IPP 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1456	GEN337125 6-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22116	103.1449	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22227	103.1429	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.1425	GEN337421 1-OUCHITA CTG1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.1425	GEN337423 1-OUCHITA CTG2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.1425	GEN337425 1-OUCHITA CTG3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22154	103.1414	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22095	103.1408	SPP-SWPS-T54
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.1402	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.1402	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1382	GEN335076 1-DYNEGY UNIT2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1369	GEN337006 1-DUKE MCADAMS G1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1369	GEN337007 1-DUKE MCADAMS G2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1359	GEN560323 1-G10-40 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.1354	GEN506752 1-LEBROCK GAS 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.1344	GEN335075 1-DYNEGY#1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.1334	GEN514912 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22116	103.1309	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22120	103.1292	AMARILLO SOUTH INTERCHANGE - G07-48T 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1269	GEN501911 1-ACADIA UNIT CT1A
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1266	GEN336167 1-GULF OXY U1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1266	GEN336168 1-GULF OXY U2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1266	GEN336169 1-GULF OXY U3
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22006	103.1255	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.124	GEN547649 1-ASBURY UNIT #1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22079	103.123	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22116	103.1222	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1211	GEN337008 1-DUKE MCADAMS S1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1183	GEN334392 1-EXXON MOBIL IPP 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22227	103.117	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22148	103.1158	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1142	GEN337421 1-OUCHITA CTG1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1142	GEN337423 1-OUCHITA CTG2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1142	GEN337425 1-OUCHITA CTG3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1118	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1118	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21939	103.1101	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.1097	GEN515000 1-MCCLAIN UNIT 3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1074	GEN506752 1-LEBROCK GAS 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1061	GEN335075 1-DYNEGY#1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.1054	GEN514912 2-REDBUD GEN
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.0944	GEN547649 1-ASBURY UNIT #1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22120	103.0943	AMARILLO SOUTH INTERCHANGE - G07-48T 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22079	103.0943	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22116	103.093	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22006	103.0905	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.087	GEN515443 1-MNCOWND1 34.500
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22148	103.0869	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	103.0825	GEN515000 1-MCCLAIN UNIT 3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21939	103.0823	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	103.0818	GEN338500 1-MCCLELLAN UNIT #1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22148	103.065	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.0622	GEN511836 1-NORTHEASTERN STATION #1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.0597	GEN515443 1-MNCOWND1 34.500
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22064	103.0575	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.0534	GEN338500 1-MCCLELLAN UNIT #1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22101	103.0505	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.0503	GEN549890 1-SOUTHWEST 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22095	103.0371	SHAMROCK - WELLINGTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22148	103.0357	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22065	103.0351	CONWAY SUB - YARNELL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22142	103.0343	KNOBHILL - SALINE 69KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.0336	GEN511836 1-NORTHEASTERN STATION #1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22079	103.0334	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22037	103.03	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22095	103.0284	SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22061	103.0278	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22064	103.0268	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22065	103.0244	NICHOLS STATION - YARNELL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22101	103.0206	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	103.0206	GEN549890 1-SOUTHWEST 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.0199	GEN300031 1-CHOUTEAU CTG 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.0199	GEN300032 1-CHOUTEAU CTG 2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.0172	GEN520812 1-ANADRK5
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.0171	GEN520813 1-ANADRK6
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22071	103.0154	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22154	103.0117	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22135	103.0117	OGE3TERM10
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22142	103.0068	KNOBHILL - SALINE 69KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22095	103.0066	SHAMROCK - WELLINGTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22142	103.0065	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22079	103.0044	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22065	103.0043	CONWAY SUB - YARNELL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22145	103.0033	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.0021	GEN511953 G-COGENTRIX GAS # 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.0015	GEN511954 S-COGENTRIX STEAM # 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22037	103.0014	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	103.0008	GEN337954 1-LYNCH UNIT #3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22095	102.998	SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22061	102.998	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22151	102.9952	CLINTON JUNCTION - G07-32T 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22065	102.9933	NICHOLS STATION - YARNELL SUB 115KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22071	102.9914	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.9912	GEN300031 1-CHOUTEAU CTG 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.9912	GEN300032 1-CHOUTEAU CTG 2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.9893	GEN520812 1-ANADRK5
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.9892	GEN520813 1-ANADRK6
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.9858	GEN547656 1-STATE LINE UNIT #2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.9847	GEN511851 1-COMANCHE #1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22082	102.9839	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22135	102.9823	OGE3TERM10
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22154	102.9816	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22079	102.9797	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22142	102.9787	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22145	102.9749	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.9736	GEN511953 G-COGENTRIX GAS # 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.973	GEN511954 S-COGENTRIX STEAM # 1



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.9721	GEN337954 1-LYNCH UNIT #3
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.9717	GEN511938 1-OEC STEAM # 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22151	102.9665	CLINTON JUNCTION - G07-32T 138.00 138KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22106	102.9661	MED-LDG5 345.00 345/138KV TRANSFORMER
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.9658	GEN335201 1-NELSON UNIT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22065	102.9598	SPP-SWPS-T53
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.9572	GEN511851 1-COMANCHE #1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.9563	GEN547656 1-STATE LINE UNIT #2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22142	102.9544	SWISSVALE - WEST GARDNER 345KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22046	102.9541	NORTHEAST STATION - ONETA 345KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22065	102.9512	CONWAY SUB - KIRBY SWITCHING STATION 115KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22082	102.9508	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22079	102.9507	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22079	102.9501	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.9479	GEN509408 1-WILKES #2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22095	102.9462	HOLLIS TAP - WELLINGTON 138KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22071	102.9446	ANDERSONCO 345.00 - WOLF CREEK 345KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.9431	GEN511938 1-OEC STEAM # 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.9394	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.9378	GEN338513 1-BAILEY UNIT #1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22109	102.9376	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.9371	GEN335201 1-NELSON UNIT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22106	102.9363	MED-LDG5 345.00 345/138KV TRANSFORMER
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22101	102.9358	MOORELAND - TALOGA 138KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22095	102.9348	CHILDRESS - HOLLIS TAP 138KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22035	102.934	8DANIEL 500.00 - MCKNIGHT 500KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.9299	GEN503900 1-FITZHUGH CT1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22065	102.928	SPP-SWPS-T53
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22142	102.9273	SWISSVALE - WEST GARDNER 345KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22046	102.927	NORTHEAST STATION - ONETA 345KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22142	102.926	GOLTRY - HELENAT2 69.000 69KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.9252	GEN338510 1-151KNWRI
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22079	102.9211	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22071	102.9203	ANDERSONCO 345.00 - WOLF CREEK 345KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22065	102.9195	CONWAY SUB - KIRBY SWITCHING STATION 115KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.9194	GEN509408 1-WILKES #2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22109	102.9191	OKEENE - WATONGA SW 69KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22095	102.9157	HOLLIS TAP - WELLINGTON 138KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.9151	GEN501910 1-ACADIA UNIT 5T1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.9139	GEN549893 2-SOUTHWEST 2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.9137	GEN335202 1-NELSON UNIT 2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22091	102.9114	PUTNAM - TALOGA 69KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.9106	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.909	GEN521129 1-BLUCAN5 4 138.00
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.9088	GEN338513 1-BAILEY UNIT #1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.9087	GEN506749 1-EASTMAN GENERATION A
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22100	102.9081	MCCOOL - MOORE 345KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.9063	GEN560169 1-G08-13 0.5750
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22101	102.9058	MOORELAND - TALOGA 138KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22035	102.9058	8DANIEL 500.00 - MCKNIGHT 500KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22142	102.9053	GOLTRY - IMO 69KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22110	102.9044	JENSEN ROAD - JENSEN TAP 138KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22095	102.9044	CHILDRESS - HOLLIS TAP 138KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22109	102.9043	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.9011	GEN503900 1-FITZHUGH CT1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22081	102.8983	RED WILLOW (R.WIL T1) 345/115/13.8KV TRANSFORMER

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME							
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22142	102.8974	GOLTRY - HELENAT2 69.000 69KV	CKT 1			
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.8963	GEN338510 1-151KNWRI				
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22109	102.8911	OKEENE - WATONGA SW 69KV	CKT 1			
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22055	102.8901	GERALD GENTLEMAN STATION - SWEETWATER	345KV	CKT 2		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22091	102.8875	HAMON BUTLER - PUTNAM	69KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22091	102.887	ARAPAHO - HAMON BUTLER	69KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.8862	GEN335612 1-WILLOW GLENN	UNIT#2			
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22069	102.886	7OVERTON 345.00 - SIBLEY	345KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.8859	GEN501910 1-ACADIA	UNIT	ST1		
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.8848	GEN335202 1-NELSON	UNIT	2		
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.8846	GEN549893 2-SOUTHWEST	2			
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22091	102.8834	PUTNAM - TALOGA	69KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.8807	GEN521129 1-BLUCANS	4 138.00			
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22851	102.8799	G05-17T 345.00 - POTTER	COUNTY	INTERCHANGE	345KV	CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.8798	GEN506749 1-EASTMAN	GENERATION	A		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22091	102.8785	ARAPAHO - INDUSTRIAL	PARK	69KV	CKT 1	
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.8785	GEN337422 1-OUCHITA	STG1			
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.8785	GEN337424 1-OUCHITA	STG2			
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.8785	GEN337426 1-OUCHITA	STG3			
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22100	102.8782	MCCOOL - MOORE	345KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.8781	GEN560169 1-G08-13	0.5750			
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22050	102.8779	CLARENDON - JERICO	69KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22142	102.8764	GOLTRY - IMO	69KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22050	102.876	JERICO - KIRBY	SWITCHING	STATION	115KV	CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22050	102.875	JERICO (JERIC2WT) 115/69/14.4KV	TRANSFORMER	CKT 1		
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22110	102.8747	JENSEN ROAD - JENSEN	TAP	138KV	CKT 1	
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22081	102.8685	RED WILLOW (R.WIL T1) 345/115/13.8KV	TRANSFORMER	CKT 1		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22172	102.864	MOREWOOD SW - RHWIN4	138.00	138KV	CKT 1	
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22043	102.8614	SUNNYSIDE (SUNNYS03) 345/138/13.8KV	TRANSFORMER	CKT 1		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22117	102.8611	CIMARRON - EL RENO	138KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.8603	GEN335611 1-WILLOW GLENN	UNIT#1			
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22091	102.8594	HAMON BUTLER - PUTNAM	69KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22055	102.8592	GERALD GENTLEMAN STATION - SWEETWATER	345KV	CKT 2		
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22091	102.8589	ARAPAHO - HAMON BUTLER	69KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22048	102.8585	STEGALL - WAYSIDE	230KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22069	102.8579	7OVERTON 345.00 - SIBLEY	345KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.8579	GEN335545 1-DOW	AEP	UNITS		
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.8572	GEN335612 1-WILLOW GLENN	UNIT#2			
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22069	102.8547	OVERTON-TRF				
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22087	102.8517	MARSHALL - WOODRING	138KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.8511	GEN520811 1-ANADRK4				
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22091	102.851	ARAPAHO - INDUSTRIAL	PARK	69KV	CKT 1	
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.8495	GEN337422 1-OUCHITA	STG1			
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.8495	GEN337424 1-OUCHITA	STG2			
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.8495	GEN337426 1-OUCHITA	STG3			
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22050	102.8481	CLARENDON - JERICO	69KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22050	102.8462	JERICO - KIRBY	SWITCHING	STATION	115KV	CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22050	102.8453	JERICO (JERIC2WT) 115/69/14.4KV	TRANSFORMER	CKT 1		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22087	102.8447	COTTONWOOD CREEK - MARSHALL	138KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.8443	GEN337124 5-LS	POWER	BATESVILLE		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22091	102.844	CORDELL - INDUSTRIAL	PARK	69KV	CKT 1	
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.8421	GEN335137 C4-PPG				
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22054	102.8402	BROOKLINE - MORGAN	345KV	CKT 1		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.8378	GEN300003 1-THOMAS	HILL	UNIT	3	
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22172	102.8361	MOREWOOD SW - RHWIN4	138.00	138KV	CKT 1	
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22082	102.8324	CANTON - TALOGA	69KV	CKT 1		

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22043	102.8322	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22117	102.8321	CIMARRON - EL RENO 138KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.8313	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.8294	GEN300016 1-1G1GPDEL 18.000
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.8294	GEN300017 1-1G2GPDEL 18.000
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22048	102.8287	STEGALL - WAYSIDE 230KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.8286	GEN335545 1-DOW AEP UNITS
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22069	102.8264	OVERTON-TRF
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.8255	GEN511852 1-COMANCHE #2
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22087	102.8239	MARSHALL - WOODRING 138KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.8226	GEN520811 1-ANADRR4
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22087	102.8168	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22091	102.8163	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.8152	GEN337124 5-LS POWER BATESVILLE
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.8131	GEN511853 1-COMANCHE #3
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.813	GEN335137 C4-PPG
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22054	102.8118	BROOKLINE - MORGAN 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22047	102.8114	OGE3TERM2
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.8112	GEN334467 1-DUPONT UNIT#1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22045	102.8096	MORRISON - STILLWATER 138KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.8095	GEN500915 3-WESTERN KRAFT
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22042	102.8069	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.8068	GEN300003 1-THOMAS HILL UNIT 3
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22082	102.8035	CANTON - TALOGA 69KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22082	102.8034	CANTON - OKEENE 69KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22051	102.8034	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22090	102.8005	WRTOD1104
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.8001	GEN300016 1-1G1GPDEL 18.000
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.8001	GEN300017 1-1G2GPDEL 18.000
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.7971	GEN511852 1-COMANCHE #2
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.7948	GEN334335 1-TOLEDO BEND
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.7925	GEN334232 1-PELGNRD U1 13.800
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.7925	GEN334233 1-PELGNRD U2 13.800
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.7847	GEN511853 1-COMANCHE #3
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22047	102.7846	OGE3TERM2
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22045	102.7827	MORRISON - STILLWATER 138KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22034	102.7827	CLINTON - MONTROSE 161KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.7821	GEN334467 1-DUPONT UNIT#1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.781	GEN335546 3-DOW COGEN
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.7804	GEN500915 3-WESTERN KRAFT
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22042	102.7782	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.7777	GEN334298 1-CYPR U1 13.800
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.7777	GEN334299 1-CYPR U2 13.800
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22123	102.7766	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22036	102.7752	KCPL-OPGD06A
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22051	102.7747	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22082	102.7745	CANTON - OKEENE 69KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22090	102.772	WRTOD1104
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22108	102.7685	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22044	102.7676	ELK CITY (ELKTY-4) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22036	102.7674	KCPL-OPGD01A
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.7656	GEN334335 1-TOLEDO BEND
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22071	102.7654	DBL-SPRVL-CO
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.7633	GEN334232 1-PELGNRD U1 13.800
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.7633	GEN334233 1-PELGNRD U2 13.800
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.7601	GEN336176 1-UNION CARBIDE COGEN GT1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME				RATEB	TDF	TC%LOADING	CONTINGENCY NAME		
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.7601	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.21765	102.7599	SOONER - SPRING CREEK 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22040	102.7551	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22034	102.7541	CLINTON - MONTROSE 161KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.7518	GEN335546 3-DOW COGEN
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.7495	GEN560118 1-G08-46 0.6900
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.7478	GEN334298 1-CYPR U1 13.800
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.7478	GEN334299 1-CYPR U2 13.800
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22123	102.747	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22036	102.7459	KCPCL-OPGD06A
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.7452	GEN335644 1-EXXON UNITS
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22035	102.7447	HAWTHORN - NASHUA 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22108	102.7419	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22036	102.738	KCPCL-OPGD01A
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22044	102.7375	ELK CITY (ELKCTY-4) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.7368	GEN506753 1-LEBROCK GAS 2
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22060	102.7352	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.21999	102.7347	NORTHEAST STATION - TULSA NORTH 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.7306	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.7306	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22060	102.7288	NINNES3 115.00 - PRATT 115KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22040	102.726	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22044	102.7233	AI43
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22040	102.7229	MCELROY - STILLWATER 138KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.7208	GEN560118 1-G08-46 0.6900
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22091	102.7191	CALUMET - WATONGA SW 69KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22035	102.7152	HAWTHORN - NASHUA 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22044	102.7109	7LUTESVIL 345.00 - 7ST FRAN 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22052	102.7095	EVANS ENERGY CENTER NORTH - MAIZE 4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22060	102.7071	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.21999	102.7057	NORTHEAST STATION - TULSA NORTH 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22060	102.7031	NINNES3 115.00 - ST JOHN 115KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22060	102.7003	NINNES3 115.00 - PRATT 115KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22071	102.6982	DBL-SPRVL-CO
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22091	102.6902	CALUMET - WATONGA SW 69KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.6664	GEN599891 1-OKLAUN
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.4335	BASE CASE
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.4033	BASE CASE
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.2627	GEN515389 1-TLGAWND1 34.500
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22010	102.1715	GRAY CO 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.1591	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.1542	GEN560140 1-G09-08 0.7000
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.1541	GEN539630 1-FLATRDG1 34.500
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.1526	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22022	102.1465	MAYFLOWER 500 - PLEASANT HILL 500KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.1381	GEN560235 1-G08-92 0.6900
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.1367	GEN530639 01-HYSWWDG1 0.6900
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22032	102.1363	BAXTER WILSON SES - RAY BRASWELL SES 500KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.1256	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.124	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.1225	GEN539630 1-FLATRDG1 34.500
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22010	102.1209	GRAY CO 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.1199	GEN641089 2-ENERGY CENTER 2
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	102.1186	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.1154	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22021	102.1152	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.1128	GEN560694 1-G11-008-2 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.1108	GEN560695 1-G11-008-3 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.11	GEN560386 1-G10-029-1 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.11	GEN560387 1-G10-029-2 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.11	GEN560388 1-G10-029-3 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.107	GEN560235 1-G08-92 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.1054	GEN530639 01-HYSWINDG1 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22032	102.1049	BAXTER WILSON SES - RAY BRASWELL SES 500KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.1043	GEN560514 1-G04_014 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.1034	GEN560606 1-G07-11 0.5750
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0885	GEN641089 2-ENERGY CENTER 2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0882	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.21972	102.0879	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.21972	102.0847	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22021	102.0839	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22030	102.0832	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.082	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.21865	102.0817	SOONER - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0814	GEN560694 1-G11-008-2 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0805	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.0797	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0794	GEN560695 1-G11-008-3 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0787	GEN560386 1-G10-029-1 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0787	GEN560387 1-G10-029-2 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0787	GEN560388 1-G10-029-3 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.0775	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.075	GEN515790 1-FPLWIND2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0732	GEN560606 1-G07-11 0.5750
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.073	GEN560514 1-G04_014 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.0694	GEN520922 1-SLEEPING 138.00
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22059	102.0667	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22034	102.0653	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.21972	102.0571	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.21865	102.0551	SOONER - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.21972	102.054	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22030	102.0517	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0461	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.043	GEN515790 1-FPLWIND2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0423	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0415	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.0396	GEN531486 1-CNTRPL2 34.500
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22145	102.0385	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0377	GEN520922 1-SLEEPING 138.00
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22059	102.0348	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22034	102.0336	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.0289	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22074	102.0252	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.0239	GEN522814 1-LUBBOCK POWER & LIGHT-MACKENZIE GEN
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.0223	GEN524895 1-SAN JUAN MESA WIND GEN
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22042	102.0219	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.0185	CENTER GEN TRANS 4 - SQUARE BUTTE 230KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22029	102.0107	GEN560238 1-G10-09 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22017	102.01	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22017	102.0096	A112
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22029	102.0081	GEN531486 1-CNTRPL2 34.500
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22075	102.0072	OGE3TERM7

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME						
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.006	GEN560356 1-G10-53	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	102.0058	GEN560693 1-G11-008-1	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22145	102.0046	WOODRING (WOODRNG2)	345/138/13.8KV TRANSFORMER	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22017	101.9996	FLINT CREEK - SUB 383 -	MONETT 345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22008	101.9987	NORTHWEST (NORTWST3)	345/138/13.8KV TRANSFORMER	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.9974	BURLINGTON NO1 + NO 2 +	NO 3 161/20.0KV TRANSFORMER	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.9969	GEN515397 1-OUSPRT 1	34.500		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.9954	GEN560432 1-G08-124	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.9944	GEN522814 1-LUBBOCK POWER &	LIGHT-MACKENZIE	GEN	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22074	101.9932	KILDARE4 - NEWKIRK4	138KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.993	GEN524895 1-SAN JUAN MESA	WIND	GEN	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.9929	GEN560659 1-G07-38	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22119	101.9908	HITCHLAND INTERCHANGE (H	TP80148301) 230/115/13.2KV	TRANSFORMER	CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22042	101.9892	CLARKSVILLE - MUSKOGEE	345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.9876	CENTER GEN TRANS 4 -	SQUARE BUTTE 230KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22022	101.9859	ARKANSAS NUCLEAR ONE -	PLEASANT HILL 500KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.9833	GEN562035 1-G11-016	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.9796	GEN560238 1-G10-09	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22017	101.9781	BROOKLINE - SUB 383 -	MONETT 345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22017	101.9777	AI12			
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22075	101.9751	OGE3TERM7			
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.9742	GEN560356 1-G10-53	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.9739	GEN560693 1-G11-008-1	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.9706	GEN560549 1-G06-06	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22017	101.9676	FLINT CREEK - SUB 383 -	MONETT 345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22008	101.9661	NORTHWEST (NORTWST3)	345/138/13.8KV TRANSFORMER	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.21932	101.9658	FT SMITH - MUSKOGEE	345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.9643	GEN515397 1-OUSPRT 1	34.500		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.9636	GEN560432 1-G08-124	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.9612	GEN560659 1-G07-38	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22119	101.9591	HITCHLAND INTERCHANGE (H	TP80148301) 230/115/13.2KV	TRANSFORMER	CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22017	101.9569	CIMARRON (CIMARON2)	345/138/13.8KV TRANSFORMER	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22022	101.9541	ARKANSAS NUCLEAR ONE -	PLEASANT HILL 500KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22074	101.9537	CRESWELL - PECKHMT4	138.00 138KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22074	101.9531	NEWKIRK4 - PECKHMT4	138.00 138KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.21645	101.9524	MATTHEWSON 345.00 -	WOODRING 345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.9516	GEN562035 1-G11-016	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22074	101.951	SPP-WERE-41B			
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.9421	GEN523277 1-VALERO	SUB		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22016	101.9403	CIMARRON (CIMARON1)	345/138/13.8KV TRANSFORMER	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.9392	GEN560549 1-G06-06	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.21932	101.9339	FT SMITH - MUSKOGEE	345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.21645	101.9326	MATTHEWSON 345.00 -	WOODRING 345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22017	101.9244	CIMARRON (CIMARON2)	345/138/13.8KV TRANSFORMER	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22074	101.9212	CRESWELL - PECKHMT4	138.00 138KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22074	101.9207	NEWKIRK4 - PECKHMT4	138.00 138KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.9185	GEN560209 1-G07-40	0.5750		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22074	101.9183	SPP-WERE-41B			
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22040	101.916	8BHAM STEEL 500.00 -	WEST MEMPHIS 500 500KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.9133	GEN523277 1-VALERO	SUB		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22040	101.9099	AMRN_OUT55			
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.22016	101.9077	CIMARRON (CIMARON1)	345/138/13.8KV TRANSFORMER	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.9037	GEN526331 1-JONES GEN #1	22 KV		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.9031	GEN526332 1-JONES GEN #2	21 KV		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.8971	GEN560329 1-G10-45	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.22007	101.8923	NORTHWEST (NORTWST2)	345/138/13.8KV TRANSFORMER	CKT 1	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME				RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.8918	GEN562032 1-G11-017 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.8873	GEN560209 1-G07-40 0.5750
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22075	101.8861	SPP-WERE-07B
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.8857	GEN560522 1-G05-12 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.8849	GEN515364 1-CENT 11 0.6000
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22040	101.8839	88HAM STEEL 500.00 - WEST MEMPHIS 500 500KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.8795	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22040	101.8777	AMRN_OUT55
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.8743	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22001	101.8739	FLINT CREEK - GRDA1 345KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.8737	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.8664	GEN560329 1-G10-45 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.86	GEN562032 1-G11-017 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22007	101.8589	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.854	GEN560522 1-G05-12 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22075	101.8529	SPP-WERE-07B
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.8512	GEN515364 1-CENT 11 0.6000
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.8505	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.8464	GEN524285 1-WILDORADO WIND GEN
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22001	101.8418	FLINT CREEK - GRDA1 345KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.8371	GEN560170 1-G08-16 34.500
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.8302	GEN560595 1-G06-47 0.6000
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.8294	GEN560592 1-G06-45 0.6000
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.21918	101.8258	CLEVELAND - TULSA NORTH 345KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.8257	GEN515393 1-OGEWND2G
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.8179	GEN524285 1-WILDORADO WIND GEN
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.8079	GEN560170 1-G08-16 34.500
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.8014	GEN560595 1-G06-47 0.6000
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22039	101.8009	DELL 500 - INDEPENDENCE 500KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.8005	GEN560592 1-G06-45 0.6000
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.21918	101.7959	CLEVELAND - TULSA NORTH 345KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.7928	GEN539677 3-A. M. MULLERGREN GENERATOR
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.7903	GEN515393 1-OGEWND2G
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.7774	GEN560180 1-G07-51 0.6000
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.776	GEN562014 1-G11-023 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22039	101.7683	DELL 500 - INDEPENDENCE 500KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.7651	GEN560173 1-G08-17 0.5750
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.7599	GEN539677 3-A. M. MULLERGREN GENERATOR
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.7438	GEN562014 1-G11-023 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.7419	GEN560180 1-G07-51 0.6000
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.7342	GEN560173 1-G08-17 0.5750
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.7231	GEN560105 1-G08-22 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.7141	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22042	101.6993	KEO EHV - WEST MEMPHIS 500 500KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.6942	GEN560105 1-G08-22 0.6900
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22008	101.6921	CHAMBER SPRINGS - CLARKSVILLE 345KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.21815	101.6871	PITTSBURG - SEMINOLE 345KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.6842	GEN531459 2-S2 GENERATOR
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.6834	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.6826	GEN560273 1-ASGI-10-11 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22042	101.6663	KEO EHV - WEST MEMPHIS 500 500KV
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22008	101.6584	CHAMBER SPRINGS - CLARKSVILLE 345KV
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV	CKT 1	1195	0.22029	101.6561	GEN560353 1-G10-52 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.6547	GEN560273 1-ASGI-10-11 0.6900
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.22029	101.6542	GEN531459 2-S2 GENERATOR
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV	CKT 1	1195	0.21815	101.654	PITTSBURG - SEMINOLE 345KV

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME						
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.6252	GEN560353 1-G10-52	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.5531	GEN560221 1-G07-62-1	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.5531	GEN560222 1-G07-62-2	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.5531	GEN560223 1-G07-62-3	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.5531	GEN560224 1-G07-62-4	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22106	101.5383	DELAWARE - NORTHEAST STATION	345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.5212	GEN560359 1-G08-51	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.5157	GEN560221 1-G07-62-1	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.5157	GEN560222 1-G07-62-2	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.5157	GEN560223 1-G07-62-3	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.5157	GEN560224 1-G07-62-4	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22106	101.5039	DELAWARE - NORTHEAST STATION	345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.4981	GEN560584 1-G06-44-1	0.6000		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.4935	GEN560359 1-G08-51	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.4722	GEN560187 1-G10-07	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.4705	GEN560584 1-G06-44-1	0.6000		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.4664	GEN520997 1-MORLND2			
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21896	101.4651	CLEVELAND - SOONER	345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.454	GEN523926 1-MAJESTC_WND3115.00			
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.4451	GEN560187 1-G10-07	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21896	101.4368	CLEVELAND - SOONER	345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.4334	GEN560166 1-G07-48	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.4268	GEN523926 1-MAJESTC_WND3115.00			
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.426	GEN560570 1-G06-39	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.4234	GEN520997 1-MORLND2			
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.4056	GEN560166 1-G07-48	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.3983	GEN560570 1-G06-39	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.3962	GEN560279 1-G08-18	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.3775	GEN560429 1-G08-29	0.6400		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.365	GEN560279 1-G08-18	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.3408	GEN560429 1-G08-29	0.6400		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.2219	GEN523195 1-Hansford County Switch Station			
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.2152	GEN523461 1-BLACKHAWK	GEN #1		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.2152	GEN523462 1-BLACKHAWK	GEN #2		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.2132	GEN562023 1-G11-020	0.6900		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.2132	GEN562026 1-G11-019	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.1954	GEN523195 1-Hansford County Switch Station			
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.1887	GEN523461 1-BLACKHAWK	GEN #1		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.1887	GEN523462 1-BLACKHAWK	GEN #2		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.1876	GEN640011 2-GERALD GENTLEMAN STATION	UNIT 2		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.173	GEN560539 1-G05-17-2	34.500		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.1654	GEN562023 1-G11-020	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.1654	GEN562026 1-G11-019	0.6900		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.1545	GEN640011 2-GERALD GENTLEMAN STATION	UNIT 2		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.1466	GEN560539 1-G05-17-2	34.500		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.23856	101.1226	G11-021T	345.00 - Hitchland Interchange	345KV	CKT 1
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.23856	101.0897	G11-021T	345.00 - Hitchland Interchange	345KV	CKT 1
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.0409	GEN539670 4-JUDSON LARGE GENERATOR			
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21764	101.032	REDBUD - RIVERSIDE STATION	345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	101.0308	GEN640010 1-GERALD GENTLEMAN STATION	UNIT 1		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	101.0081	GEN539670 4-JUDSON LARGE GENERATOR			
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22029	100.9975	GEN640010 1-GERALD GENTLEMAN STATION	UNIT 1		
FDNS	02ALL		2 11G	G11_021	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21764	100.9958	REDBUD - RIVERSIDE STATION	345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21558	100.9619	ARCADIA - NORTHWEST	345KV	CKT 1	
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	100.9589	GEN527162 1-MUSTANG	GEN #2		
FDNS	02ALL		2 11G	G11_021	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22029	100.9588	GEN527161 1-MUSTANG	GEN #1		



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	100.9567	GEN527165 1-Mustang Gen #5
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	100.9548	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21689	100.9439	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21558	100.9363	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	100.9314	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	100.9314	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	100.9293	GEN527165 1-Mustang Gen #5
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	100.9273	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21689	100.9074	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	100.8758	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	100.8665	GEN562049 1-G11-012 0.6900
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	100.8485	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	100.8413	GEN562049 1-G11-012 0.6900
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22851	100.7937	G05-17T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22851	100.7594	G05-17T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21638	100.7257	BORDER 7345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21886	100.714	2008-047T 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	100.7064	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	100.7064	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	100.6794	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	100.6794	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21886	100.6708	2008-047T 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21638	100.6673	BORDER 7345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21703	100.565	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21703	100.5338	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	100.392	GEN560536 1-G05-17-1 34.500
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	100.392	GEN560540 1-G05-17-3 34.500
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	100.3669	GEN560536 1-G05-17-1 34.500
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	100.3669	GEN560540 1-G05-17-3 34.500
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	100.2378	GEN560585 1-G06-44-2 0.6000
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	100.2135	GEN560585 1-G06-44-2 0.6000
FDNS	02ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22029	100	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22029	100	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02G11_021	0	11G	G11_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22624	107.2326	DBL-WOOD-MED
FDNS	02G11_021	0	11G	G11_021	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.33342	101.7229	DBL-G0847-WO
FDNS	02G11_021	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.28131	122.826	DBL-MEDLO-WI
FDNS	02G11_021	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.28131	122.8259	DBL-MEDLO-WI
FDNS	02G11_021	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.27904	108.9853	DBL-WOOD-MED
FDNS	02G11_021	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.27904	108.9852	DBL-WOOD-MED
FDNS	02G11_021	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.23849	106.5311	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02G11_021	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.23849	106.5288	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02G11_021	2	11G	G11_021	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.33291	101.8809	DBL-G0847-WO
FDNS	02G11_021	3	11G	G11_021	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.33302	101.9753	DBL-G0847-WO
FDNS	03ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22849	103.615	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22849	103.615	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22849	103.6141	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22849	103.6141	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	11G	G11_021	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22436	100.3479	MINGO - SETAB 345KV CKT 1
FDNS	03ALL	2	11G	G11_021	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22436	100.3311	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	3	0	11G	G11_022		Non Converged Contingency	0	0.06475	-	DBL-COM-MEDL
FNSL-Blown up	3	0	11G	G11_022		Non Converged Contingency	0	0.22065	-	DBL-MEDLO-WI
FNSL-Blown up	3	2	11G	G11_022		Non Converged Contingency	0	0.06428	-	DBL-COM-MEDL
FNSL-Blown up	3	2	11G	G11_022		Non Converged Contingency	0	0.20394	-	DBL-MEDLO-WI
FNSL-Blown up	3	3	11G	G11_022		Non Converged Contingency	0	0.06437	-	DBL-COM-MEDL
FNSL-Blown up	3	3	11G	G11_022		Non Converged Contingency	0	0.20380	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G11_022		Non Converged Contingency	1195	0.17087	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	01ALL	0	11G	G11_022		Non Converged Contingency	1195	0.17087	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_022		Non Converged Contingency	1195	0.17087	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_022		Non Converged Contingency	0	0.22204	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G11_022		Non Converged Contingency	0	0.17283	-	DBL-WOOD-MED
FNSL-Blown up	02ALL	0	11G	G11_022		Non Converged Contingency	0	0.21671	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	G11_022		Non Converged Contingency	0	0.33184	-	DBL-G0847-WO
FNSL-Blown up	02ALL	2	11G	G11_022		Non Converged Contingency	0	0.44599	-	DBL-HIT-G084
FNSL-Blown up	02ALL	2	11G	G11_022		Non Converged Contingency	0	0.34193	-	DBL-G0847-WO
FNSL-Blown up	02ALL	3	11G	G11_022		Non Converged Contingency	0	0.44633	-	DBL-HIT-G084
FNSL-Blown up	02ALL	3	11G	G11_022		Non Converged Contingency	0	0.34236	-	DBL-G0847-WO
FNSL-Blown up	03ALL	0	11G	G11_022		Non Converged Contingency	1195	0.16172	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_022		Non Converged Contingency	1195	0.16172	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_022		Non Converged Contingency	1195	0.16172	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_022		Non Converged Contingency	1792	0.06276	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_022		Non Converged Contingency	1328	0.07722	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_022		Non Converged Contingency	1195	0.05567	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_022		Non Converged Contingency	1195	0.05567	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_022		Non Converged Contingency	0	0.03932	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	0	11G	G11_022		Non Converged Contingency	0	0.03932	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	0	11G	G11_022		Non Converged Contingency	0	0.19429	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	0	11G	G11_022		Non Converged Contingency	0	0.32611	-	DBL-G0847-WO
FNSL-Blown up	03ALL	2	11G	G11_022		Non Converged Contingency	1195	0.20427	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_022		Non Converged Contingency	1195	0.05300	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	2	11G	G11_022		Non Converged Contingency	0	0.04004	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	2	11G	G11_022		Non Converged Contingency	0	0.04004	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	2	11G	G11_022		Non Converged Contingency	0	0.17927	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G11_022		Non Converged Contingency	1792	0.20575	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_022		Non Converged Contingency	1195	0.05299	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_022		Non Converged Contingency	1195	0.05299	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	3	11G	G11_022		Non Converged Contingency	0	0.04015	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL	3	11G	G11_022		Non Converged Contingency	0	0.04015	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	3	11G	G11_022		Non Converged Contingency	0	0.17916	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G11_022		Non Converged Contingency	0	0.33673	-	DBL-G0847-WO
FNSL-Blown up	03ALL	4	11G	G11_022		Non Converged Contingency	1792	0.20571	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_022		Non Converged Contingency	1792	0.20571	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_022		Non Converged Contingency	1792	0.05932	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_022		Non Converged Contingency	1195	0.05230	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_022		Non Converged Contingency	1195	0.05230	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_022		Non Converged Contingency	1792	0.08897	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_022		Non Converged Contingency	1792	0.08897	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL	4	11G	G11_022		Non Converged Contingency	1195	0.05230	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_022		Non Converged Contingency	956	0.05508	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_022		Non Converged Contingency	0	0.03898	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	4	11G	G11_022		Non Converged Contingency	0	0.17795	-	DBL-MEDLO-WI
FNSL	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20840	102.7649	DBL-SPRVL-CO
FNSL	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20840	102.6977	DBL-SPRVL-CO
FDNS	1	0	11G	G11_022	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.22017	138.0853	DBL-MEDLO-WI
FDNS	1	0	11G	G11_022	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21762	133.7625	DBL-WOOD-MED
FDNS	2	0	11G	G11_022	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21506	116.9574	DBL-MEDLO-WI
FDNS	2	0	11G	G11_022	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21276	105.8729	DBL-WOOD-MED
FDNS	2	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.26725	121.0025	DBL-MEDLO-WI
FDNS	2	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.26725	121.0023	DBL-MEDLO-WI
FDNS	2	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.26227	107.3592	DBL-WOOD-MED
FDNS	2	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.26227	107.3592	DBL-WOOD-MED
FDNS	2	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22990	105.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22990	105.0432	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20772	102.801	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20772	102.7725	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20784	101.9173	LACYGNE - STILWELL 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20784	101.8867	LACYGNE - STILWELL 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.9765	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.9452	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20813	104.1295	LACYGNE - NEOSHO 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20813	104.1056	LACYGNE - NEOSHO 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20863	103.0816	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20863	103.0547	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20795	102.7825	CRAIG - STRANGER CREEK 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20795	102.7529	CRAIG - STRANGER CREEK 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20853	103.4234	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20853	103.3981	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20784	102.7611	ROSE HILL - WOLF CREEK 345KV CKT 1
FDNS	02ALL	0	11G	G11_022	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21096	123.3172	DBL-WOOD-MED
FDNS	02ALL	0	11G	G11_022	TO->FROM	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.35907	115.1098	DBL-HIT-G084
FDNS	02ALL	0	11G	G11_022	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.24307	101.1175	DBL-WOOD-MED
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.26516	144.3307	DBL-MEDLO-WI
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.26516	144.3306	DBL-MEDLO-WI
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.26007	128.378	DBL-WOOD-MED
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.26007	128.378	DBL-WOOD-MED
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22770	117.5903	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22770	117.5627	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22770	116.5021	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22770	116.4728	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.35866	115.1342	DBL-HIT-G084
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22203	112.2816	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22203	112.2816	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22203	112.2815	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22203	112.2815	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22553	110.92	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22553	110.8274	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22339	110.1515	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22339	110.1515	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22339	110.1381	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22253	109.5072	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22253	109.3497	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	108.6311	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	108.6109	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21359	108.4247	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21359	108.424	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21359	108.3668	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21359	108.3661	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21801	108.0719	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21801	108.0344	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21713	108.0146	MINGO - SETAB 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21713	107.974	MINGO - SETAB 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	107.9721	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	107.9518	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21449	107.6583	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21377	107.6363	SPP-SWPS-03
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21449	107.6331	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21377	107.5843	SPP-SWPS-03
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	107.434	GEN335831 1-RIVERBEND UNIT#1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	107.4121	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21467	107.2905	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21467	107.276	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21359	107.2237	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21359	107.1703	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	107.0557	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	107.0341	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21449	106.9542	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21449	106.9278	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21467	106.9071	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21467	106.8918	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21359	106.8453	SPP-SWPS-02
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21359	106.8453	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21359	106.8453	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21359	106.7965	SPP-SWPS-02
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21359	106.7965	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21359	106.7965	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21467	106.4995	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21467	106.4824	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21359	106.4708	SPP-SWPS-02A
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.22124	106.4431	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21359	106.42	SPP-SWPS-02A
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.22124	106.3834	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	106.3071	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	106.2837	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	106.2734	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	106.2524	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	106.0462	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21137	106.0354	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	106.0222	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	106.0212	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21527	106.0084	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	105.9983	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21137	105.9911	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	105.9825	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21527	105.9704	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	105.9573	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21290	105.8922	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21400	105.8848	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21290	105.8743	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21400	105.868	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21400	105.8549	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21400	105.8381	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21290	105.7962	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21290	105.7783	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	105.7178	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	105.6965	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	105.6286	GEN509403 1-PIRKEY GENERATION
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	105.6064	GEN509403 1-PIRKEY GENERATION
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	105.5757	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	105.5513	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.21215	105.5435	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21215	105.5178	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	105.4831	GEN501813 1-RODEMACHER UNIT 3
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	105.4603	GEN515226 1-MUSKOGEE 6G
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	105.4591	GEN501813 1-RODEMACHER UNIT 3

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	105.4379	GEN515226 1-MUSKOGEE 6G
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	105.4263	GEN337041 1-GERALD ANDRUS
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	105.4225	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	105.4011	GEN337041 1-GERALD ANDRUS
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.21476	105.3987	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	105.3977	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.21476	105.3818	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	105.3098	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.21197	105.2896	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.21229	105.2847	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	105.2833	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.21197	105.2717	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.21229	105.2596	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.21382	105.2428	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.21382	105.2052	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.21382	105.2049	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	105.1953	GEN520947 1-HUGO1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.21169	105.192	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	105.1732	GEN520947 1-HUGO1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.21169	105.172	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.21382	105.1694	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.21169	105.1447	CEDARDALE - OKEENE 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.21169	105.1248	CEDARDALE - OKEENE 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	105.1048	GEN336831 1-BAXTER WILSON SES
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	105.0947	GEN501812 1-RODEMACHER UNIT 2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	105.0794	GEN336831 1-BAXTER WILSON SES
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	105.0736	GEN515223 1-MUSKOGEE 4G
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	105.0699	GEN501812 1-RODEMACHER UNIT 2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	105.0502	GEN515223 1-MUSKOGEE 4G
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	105.0471	GEN335206 1-NELSON UNIT 6
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	105.0332	GEN515225 1-MUSKOGEE 5G
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	105.0221	GEN335206 1-NELSON UNIT 6
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	105.0136	GEN509406 1-WELSH #3
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	105.0135	GEN509404 1-WELSH #1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	105.0135	GEN509405 1-WELSH #2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	105.0098	GEN515225 1-MUSKOGEE 5G
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	104.9901	GEN509406 1-WELSH #3
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	104.99	GEN509404 1-WELSH #1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	104.99	GEN509405 1-WELSH #2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	104.8944	GEN334440 1-SABINE UNIT 4
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	104.8692	GEN334440 1-SABINE UNIT 4
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	104.8067	GEN509394 1-FLINT CREEK
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	104.7809	GEN509394 1-FLINT CREEK
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	104.7793	GEN335204 1-NELSON UNIT 4
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	104.7538	GEN335204 1-NELSON UNIT 4
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22064	104.7517	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.22253	104.7208	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22064	104.7175	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.22253	104.6626	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	104.66	GEN511841 1-NORTHEASTERN STATION #4
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	104.6358	GEN511840 1-NORTHEASTERN STATION #3
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	104.6342	GEN511841 1-NORTHEASTERN STATION #4
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	104.6266	GEN511839 1-NORTHEASTERN STATION #2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	104.61	GEN511840 1-NORTHEASTERN STATION #3
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	104.6008	GEN511839 1-NORTHEASTERN STATION #2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	104.5547	GEN334441 1-SABINE UNIT 5

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	104.5289	GEN334441 1-SABINE UNIT 5	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	104.5028	GEN336801 1-BAXTER WILSON UNIT #1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	104.4947	GEN512689 1-GRDA1 GSU1 22	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	104.4762	GEN336801 1-BAXTER WILSON UNIT #1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21135	104.4715	DOVER SW - OKEENE 138KV CKT 1	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	104.4689	GEN512689 1-GRDA1 GSU1 22	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	104.4627	GEN560282 1-G08-19 0.6000	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21135	104.4507	DOVER SW - OKEENE 138KV CKT 1	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	104.4452	GEN560282 1-G08-19 0.6000	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	104.3972	GEN562010 1-G11-024 0.6900	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	104.3868	GEN562010 1-G11-024 0.6900	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	104.3779	GEN512688 2-GRDA1 GSU2 22	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21197	104.3746	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21197	104.352	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	104.3518	GEN512688 2-GRDA1 GSU2 22	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	104.3498	GEN560175 1-G07-44 0.5750	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	104.3451	GEN560175 1-G07-44 0.5750	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20947	104.3329	CIMARRON - MINCO 7 345.00 345KV CKT 1	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20947	104.3113	CIMARRON - MINCO 7 345.00 345KV CKT 1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20944	104.2796	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	104.267	GEN515042 1-SEMINOLE 3G	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20944	104.2473	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	104.2432	GEN515042 1-SEMINOLE 3G	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21018	104.2324	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20967	104.2077	SPP-MKEC-08	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21018	104.205	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20840	104.1873	DBL-COM-MEDL	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20967	104.1796	SPP-MKEC-08	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21018	104.1777	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20973	104.1596	CIRCLE - MULLERGREN 230KV CKT 1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20951	104.1577	GRAND ISLAND - SWEETWATER 345KV CKT 1	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21018	104.1516	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20973	104.129	CIRCLE - MULLERGREN 230KV CKT 1	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20951	104.1286	GRAND ISLAND - SWEETWATER 345KV CKT 1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21224	104.0892	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21224	104.0566	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	104.0388	GEN515041 1-SEMINOLE 2G	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	104.0156	GEN515040 1-SEMINOLE 1G	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	104.0143	GEN515041 1-SEMINOLE 2G	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.9906	GEN515040 1-SEMINOLE 1G	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20965	103.9715	MULLERGREN - SPEARVILLE 230KV CKT 1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.9576	GEN509409 1-WILKES #3	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20965	103.9405	MULLERGREN - SPEARVILLE 230KV CKT 1	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.9322	GEN509409 1-WILKES #3	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21028	103.9133	IODINE - WWRDEHV4 138.00 138KV CKT 1	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21028	103.8857	IODINE - WWRDEHV4 138.00 138KV CKT 1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.8703	GEN336170 1-GULF OXY U4	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.8427	GEN336170 1-GULF OXY U4	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21028	103.8391	DEWEY - IODINE 138KV CKT 1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.8308	GEN514910 2-REDBUD GEN	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.8308	GEN514911 2-REDBUD GEN	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20967	103.8113	SPP-WERE-34	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21028	103.8111	DEWEY - IODINE 138KV CKT 1	
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20967	103.8076	SPP-MKEC-05	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.805	GEN514910 2-REDBUD GEN	
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.805	GEN514911 2-REDBUD GEN	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20967	103.7861	SPP-WERE-34
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20967	103.7823	SPP-MKEC-05
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.7648	GEN514998 1-MCCLAIN UNIT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.7648	GEN514999 1-MCCLAIN UNIT 2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.7639	GEN560115 1-G08-44 0.6900
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.7552	GEN560648 1-G07-21 0.5750
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.7442	GEN560115 1-G08-44 0.6900
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20944	103.7437	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.7401	GEN560648 1-G07-21 0.5750
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.7397	GEN514998 1-MCCLAIN UNIT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.7397	GEN514999 1-MCCLAIN UNIT 2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20959	103.7371	AXTELL - PAULINE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21159	103.7194	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20944	103.7123	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20959	103.7084	AXTELL - PAULINE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.7066	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.7057	GEN511843 1-RIVERSIDE STATION #2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21159	103.6952	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.6792	GEN511843 1-RIVERSIDE STATION #2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.6712	GEN300006 1-NEW MADRID UNIT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.6695	GEN334070 1-LEWIS CREEK 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.6651	GEN300007 1-NEW MADRID UNIT 2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.6571	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.6558	GEN514899 1-REDBUD1S
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.6558	GEN514900 1-REDBUD2S
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20967	103.6458	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.6429	GEN334070 1-LEWIS CREEK 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.6424	GEN300006 1-NEW MADRID UNIT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.6362	GEN300007 1-NEW MADRID UNIT 2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.6294	GEN514899 1-REDBUD1S
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.6294	GEN514900 1-REDBUD2S
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20917	103.629	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20967	103.6205	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20917	103.6026	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20917	103.6022	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20949	103.6007	MOORE - PAULINE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20995	103.585	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20917	103.5763	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20949	103.5717	MOORE - PAULINE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20995	103.5657	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20995	103.5599	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20947	103.5576	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20988	103.5522	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20995	103.5409	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20947	103.5313	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20988	103.5293	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20905	103.4834	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20856	103.477	WRTOD400
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20856	103.4519	WRTOD400
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20905	103.4465	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20988	103.4221	G05-13T 345.00 - LATHAMS7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20988	103.398	G05-13T 345.00 - LATHAMS7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21037	103.3871	DOVER SW - HENESSEY 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20941	103.3776	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21037	103.3604	DOVER SW - HENESSEY 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21730	103.3581	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.3502	GEN560639 1-ASGI-10-07 0.6900
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.3489	GEN560636 1-ASGI-10-06 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20941	103.348	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20882	103.3451	GRACMNT7 345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.21061	103.3412	OGE3TERM1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20794	103.3218	GEN560639 1-ASGI-10-07 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20794	103.3206	GEN560636 1-ASGI-10-06 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.21730	103.3199	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20825	103.3198	TRF-STEGALL
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20825	103.3176	STEGALL TY 345/230KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20825	103.3168	NEB01WAPAB3
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20882	103.3159	GRACMNT7 345.00 - LAWTON EASTSIDE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20825	103.3147	STEGALL - STEGALL TRANSFORMER 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.314	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.314	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.21061	103.3137	OGE3TERM1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20901	103.3093	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.3051	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.2987	GEN334030 1-FRONTIER UNIT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.21037	103.2903	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20825	103.2902	TRF-STEGALL
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20878	103.2899	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20825	103.2878	STEGALL TY 345/230KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20825	103.2871	NEB01WAPAB3
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20794	103.2865	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20794	103.2865	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20825	103.285	STEGALL - STEGALL TRANSFORMER 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20901	103.2807	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20794	103.2776	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20794	103.2711	GEN334030 1-FRONTIER UNIT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.21037	103.2631	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20878	103.2623	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20878	103.259	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.2514	GEN501823 1-TECHE UNIT 3
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.21037	103.2484	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.2402	GEN318007 1-SMOROW161 161.00
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.2397	GEN505432 1-SIKESTON
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20930	103.2366	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.2324	GEN337428 1-PERYVILLE UNIT #1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.2324	GEN337430 1-PERYVILLE UNIT #3
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20878	103.2315	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20794	103.2228	GEN501823 1-TECHE UNIT 3
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.21037	103.2208	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.2206	GEN514905 1-REDBUD3S
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20930	103.217	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.2119	GEN334031 1-FRONTIER UNIT 2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20794	103.2115	GEN318007 1-SMOROW161 161.00
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.2108	GEN337429 1-PERYVILLE UNIT #2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.2108	GEN337432 1-PERYVILLE UNIT #5
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20794	103.2103	GEN505432 1-SIKESTON
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20863	103.2091	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20930	103.2086	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20794	103.2043	GEN337428 1-PERYVILLE UNIT #1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	- TATONGA7	345.00	345KV	CKT 1	1195	0.20794	103.2043	GEN337430 1-PERYVILLE UNIT #3
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.1972	GEN515266 1-AES 1G
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	- WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.1972	GEN515267 1-AES 2G



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1928	GEN514905 1-REDBUD3S
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20930	103.1889	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1883	GEN335203 1-NELSON UNIT 3
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1841	GEN334031 1-FRONTIER UNIT 2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1827	GEN337429 1-PERVILLE UNIT #2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1826	GEN337432 1-PERVILLE UNIT #5
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20878	103.1819	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20863	103.1789	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20878	103.1787	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20891	103.1777	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1745	GEN560687 1-G11-007 0.5750
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20901	103.1741	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1739	GEN337125 6-LS POWER BATESVILLE
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20878	103.1715	SPP-SWPS-T54
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20907	103.1707	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1692	GEN515266 1-AES 1G
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1692	GEN515267 1-AES 2G
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1663	GEN335076 1-DYNEGY UNIT2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1653	GEN337006 1-DUKE MCADAMS G1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1653	GEN337007 1-DUKE MCADAMS G2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1619	GEN560323 1-G10-40 0.6900
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20901	103.16	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1596	GEN335203 1-NELSON UNIT 3
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1555	GEN501911 1-ACADIA UNIT CT1A
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1553	GEN336167 1-GULF OXY U1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1553	GEN336168 1-GULF OXY U2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1553	GEN336169 1-GULF OXY U3
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20891	103.1522	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20878	103.1511	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1496	GEN337008 1-DUKE MCADAMS S1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1486	GEN560687 1-G11-007 0.5750
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20878	103.1479	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1469	GEN334392 1-EXXON MOBIL IPP 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1456	GEN337125 6-LS POWER BATESVILLE
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20901	103.1449	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20988	103.1429	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1425	GEN337421 1-OUCHITA CTG1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1425	GEN337423 1-OUCHITA CTG2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1425	GEN337425 1-OUCHITA CTG3
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20907	103.1414	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20878	103.1408	SPP-SWPS-T54
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1402	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1402	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1382	GEN335076 1-DYNEGY UNIT2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1369	GEN337006 1-DUKE MCADAMS G1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1369	GEN337007 1-DUKE MCADAMS G2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1359	GEN560323 1-G10-40 0.6900
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1354	GEN506752 1-LEBROCK GAS 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1344	GEN335075 1-DYNEGY#1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	103.1334	GEN514912 2-REDBUD GEN
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20901	103.1309	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20905	103.1292	AMARILLO SOUTH INTERCHANGE -G07-48T 230.00 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1269	GEN501911 1-ACADIA UNIT CT1A
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1266	GEN336167 1-GULF OXY U1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1266	GEN336168 1-GULF OXY U2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	103.1266	GEN336169 1-GULF OXY U3

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20780	103.1255	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	103.124	GEN547649 1-ASBURY UNIT #1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20856	103.123	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20901	103.1222	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.1211	GEN337008 1-DUKE MCADAMS S1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.1183	GEN334392 1-EXXON MOBILE IPP 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20988	103.117	LATHAM57 345.00 - ROSE HILL 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20930	103.1158	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.1142	GEN337421 1-OUCHITA CTG1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.1142	GEN337423 1-OUCHITA CTG2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.1142	GEN337425 1-OUCHITA CTG3
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.1118	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.1118	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20705	103.1101	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	103.1097	GEN515000 1-MCCLAIN UNIT 3
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.1074	GEN506752 1-LEBROCK GAS 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.1061	GEN335075 1-DYNEGY#1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.1054	GEN514912 2-REBUD GEN
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.0944	GEN547649 1-ASBURY UNIT #1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20905	103.0943	AMARILLO SOUTH INTERCHANGE - G07-48T 230.00 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20856	103.0943	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20901	103.093	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20780	103.0905	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	103.087	GEN515443 1-MNCOWND1 34.500
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20930	103.0869	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.0825	GEN515000 1-MCCLAIN UNIT 3
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20705	103.0823	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	103.0818	GEN338500 1-MCCELLEAN UNIT #1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20930	103.065	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	103.0622	GEN511836 1-NORTHEASTERN STATION #1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.0597	GEN515443 1-MNCOWND1 34.500
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20831	103.0575	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.0534	GEN338500 1-MCCELLEAN UNIT #1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20868	103.0505	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	103.0503	GEN549890 1-SOUTHWEST 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20878	103.0371	SHAMROCK - WELLINGTON 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20930	103.0357	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20842	103.0351	CONWAY SUB - YARNELL SUB 115KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20902	103.0343	KNOBHILL - SALINE 69KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.0336	GEN511836 1-NORTHEASTERN STATION #1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20856	103.0334	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20802	103.03	FIELD NORTH - LKFLDX13 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20878	103.0284	SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20827	103.0278	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20831	103.0268	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20842	103.0244	NICHOLS STATION - YARNELL SUB 115KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20868	103.0206	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	103.0206	GEN549890 1-SOUTHWEST 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	103.0199	GEN300031 1-CHOUTEAU CTG 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	103.0199	GEN300032 1-CHOUTEAU CTG 2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	103.0172	GEN520812 1-ANADRK5
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	103.0171	GEN520813 1-ANADRK6
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20835	103.0154	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20916	103.0117	OGE3TERM10
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20907	103.0117	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20902	103.0068	KNOBHILL - SALINE 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20878	103.0066	SHAMROCK - WELLINGTON 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20902	103.0065	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20856	103.0044	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20842	103.0043	CONWAY SUB - YARNELL SUB 115KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20907	103.0033	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.0021	GEN511953 G-COGENTRIX GAS # 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.0015	GEN511954 S-COGENTRIX STEAM # 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20802	103.0014	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	103.0008	GEN337954 1-LYNCH UNIT #3
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20878	102.998	SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20827	102.998	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20930	102.9952	CLINTON JUNCTION - G07-32T 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20842	102.9933	NICHOLS STATION - YARNELL SUB 115KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20835	102.9914	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9912	GEN300031 1-CHOUTEAU CTG 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9912	GEN300032 1-CHOUTEAU CTG 2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9893	GEN520812 1-ANADRK5
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9892	GEN520813 1-ANADRK6
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9858	GEN547656 1-STATE LINE UNIT #2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9847	GEN511851 1-COMANCHE #1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20861	102.9839	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20916	102.9823	OGE3TERM10
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20907	102.9816	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20856	102.9797	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20902	102.9787	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20907	102.9749	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9736	GEN511953 G-COGENTRIX GAS # 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.973	GEN511954 S-COGENTRIX STEAM # 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9721	GEN337954 1-LYNCH UNIT #3
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9717	GEN511938 1-OEC STEAM # 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20930	102.9665	CLINTON JUNCTION - G07-32T 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20868	102.9661	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9658	GEN335201 1-NELSON UNIT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20842	102.9598	SPP-SWPS-T53
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9572	GEN511851 1-COMANCHE #1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9563	GEN547656 1-STATE LINE UNIT #2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20905	102.9544	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20810	102.9541	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20842	102.9512	CONWAY SUB - KIRBY SWITCHING STATION 115KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20861	102.9508	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20856	102.9507	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20856	102.9501	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9479	GEN509408 1-WILKES #2
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20878	102.9462	HOLLIS TAP - WELLINGTON 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20835	102.9446	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9431	GEN511938 1-OEC STEAM # 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9394	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9378	GEN338513 1-BAILEY UNIT #1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20883	102.9376	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9371	GEN335201 1-NELSON UNIT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20868	102.9363	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20862	102.9358	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20878	102.9348	CHILDRESS - HOLLIS TAP 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20800	102.934	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9299	GEN503900 1-FITZHUGH CT1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20842	102.928	SPP-SWPS-T53

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20905	102.9273	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20810	102.927	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20902	102.926	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9252	GEN338510 1-151KNWRI
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20856	102.9211	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20835	102.9203	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20842	102.9195	CONWAY SUB - KIRBY SWITCHING STATION 115KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9194	GEN509408 1-WILKES #2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20869	102.9191	OKEENE - WATONGA SW 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20878	102.9157	HOLLIS TAP - WELLINGTON 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9151	GEN501910 1-ACADIA UNIT ST1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9139	GEN549893 2-SOUTHWEST 2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9137	GEN335202 1-NELSON UNIT 2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20846	102.9114	PUTNAM - TALOGA 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9106	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.909	GEN521129 1-BLUCANS 4 138.00
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9088	GEN338513 1-BAILEY UNIT #1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9087	GEN506749 1-EASTMAN GENERATION A
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20867	102.9081	MCCOOL - MOORE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.9063	GEN560169 1-G08-13 0.5750
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20862	102.9058	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20800	102.9058	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20902	102.9053	GOLTRY - IMO 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20892	102.9044	JENSEN ROAD - JENSEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20878	102.9044	CHILDRESS - HOLLIS TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20883	102.9043	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.9011	GEN503900 1-FITZHUGH CT1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20849	102.8983	RED WILLOW (R.WIL T1) 345/115/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20902	102.8974	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.8963	GEN338510 1-151KNWRI
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20869	102.8911	OKEENE - WATONGA SW 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20822	102.8901	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20846	102.8875	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20846	102.887	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.8862	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20833	102.886	ZOVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.8859	GEN501910 1-ACADIA UNIT ST1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.8848	GEN335202 1-NELSON UNIT 2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.8846	GEN549893 2-SOUTHWEST 2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20846	102.8834	PUTNAM - TALOGA 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.8807	GEN521129 1-BLUCANS 4 138.00
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.21730	102.8799	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.8798	GEN506749 1-EASTMAN GENERATION A
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20846	102.8785	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.8785	GEN337422 1-OUCHITA STG1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.8785	GEN337424 1-OUCHITA STG2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.8785	GEN337426 1-OUCHITA STG3
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20867	102.8782	MCCOOL - MOORE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.8781	GEN560169 1-G08-13 0.5750
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20820	102.8779	CLARENDON - JERICHO 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20902	102.8764	GOLTRY - IMO 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20820	102.876	JERICHO - KIRBY SWITCHING STATION 115KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20820	102.875	JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20892	102.8747	JENSEN ROAD - JENSEN TAP 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20849	102.8685	RED WILLOW (R.WIL T1) 345/115/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20891	102.864	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20811	102.8614	SUNNYSIDE (SUNNYS03) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20881	102.8611	CIMARRON - EL RENO 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	102.8603	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20846	102.8594	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20822	102.8592	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20846	102.8589	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20814	102.8585	STEGALL - WAYSIDE 230KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20833	102.8579	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	102.8579	GEN335545 1-DOW AEP UNITS
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	102.8572	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20834	102.8547	OVERTON-TRF
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20849	102.8517	MARSHALL - WOODRING 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	102.8511	GEN520811 1-ANADRK4
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20846	102.851	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	102.8495	GEN337422 1-OUCHITA STG1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	102.8495	GEN337424 1-OUCHITA STG2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	102.8495	GEN337426 1-OUCHITA STG3
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20820	102.8481	CLARENDON - JERICHO 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20820	102.8462	JERICHO - KIRBY SWITCHING STATION 115KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20820	102.8453	JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20849	102.8447	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	102.8443	GEN337124 5-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20846	102.844	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	102.8421	GEN335137 C4-PPG
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20819	102.8402	BROOKLINE - MORGAN 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	102.8378	GEN300003 1-THOMAS HILL UNIT 3
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20891	102.8361	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20845	102.8324	CANTON - TALOGA 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20811	102.8322	SUNNYSIDE (SUNNYS03) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20881	102.8321	CIMARRON - EL RENO 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	102.8313	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	102.8294	GEN300016 1-1G1GPDEL 18.000
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	102.8294	GEN300017 1-1G2GPDEL 18.000
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20814	102.8287	STEGALL - WAYSIDE 230KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	102.8286	GEN335545 1-DOW AEP UNITS
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20834	102.8264	OVERTON-TRF
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	102.8255	GEN511852 1-COMANCHE #2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20849	102.8239	MARSHALL - WOODRING 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	102.8226	GEN520811 1-ANADRK4
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20849	102.8168	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20846	102.8163	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	102.8152	GEN337124 5-LS POWER BATESVILLE
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	102.8131	GEN511853 1-COMANCHE #3
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	102.813	GEN335137 C4-PPG
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20819	102.8118	BROOKLINE - MORGAN 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20811	102.8114	OGE3TERM2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	102.8112	GEN334467 1-DUPONT UNIT#1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20809	102.8096	MORRISON - STILLWATER 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	102.8095	GEN500915 3-WESTERN KRAFT
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20807	102.8069	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	102.8068	GEN300003 1-THOMAS HILL UNIT 3
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20845	102.8035	CANTON - TALOGA 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20845	102.8034	CANTON - OKEENE 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20816	102.8034	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20854	102.8005	WRTOD1104
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	102.8001	GEN300016 1-1G1GPDEL 18.000

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.8001	GEN300017 1-1G2GPDEL 18.000
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.7971	GEN511852 1-COMANCHE #2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.7948	GEN334335 1-TOLEDO BEND
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.7925	GEN334232 1-PELCNRD U1 13.800
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.7925	GEN334233 1-PELCNRD U2 13.800
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.7847	GEN511853 1-COMANCHE #3
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20811	102.7846	OGE3TERM2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20809	102.7827	MORRISON - STILLWATER 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20799	102.7827	CLINTON - MONTROSE 161KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.7821	GEN334467 1-DUPONT UNIT#1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.781	GEN335546 3-DOW COGEN
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.7804	GEN500915 3-WESTERN KRAFT
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20807	102.7782	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.777	GEN334298 1-CYPR U1 13.800
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.777	GEN334299 1-CYPR U2 13.800
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20884	102.7766	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20801	102.7752	KCPL-OPGD06A
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20816	102.7747	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20845	102.7745	CANTON - OKEENE 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20854	102.772	WRTOD1104
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20872	102.7685	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20812	102.7676	ELK CITY (ELKCTY-4) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20801	102.7674	KCPL-OPGD01A
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.7656	GEN334335 1-TOLEDO BEND
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20840	102.7654	DBL-SPRVL-CO
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.7633	GEN334232 1-PELCNRD U1 13.800
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.7633	GEN334233 1-PELCNRD U2 13.800
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.7601	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.7601	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20524	102.7599	SOONER - SPRING CREEK 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20804	102.7551	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20799	102.7541	CLINTON - MONTROSE 161KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.7518	GEN335546 3-DOW COGEN
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.7495	GEN560118 1-G08-46 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.7478	GEN334298 1-CYPR U1 13.800
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.7478	GEN334299 1-CYPR U2 13.800
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20884	102.747	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20801	102.7459	KCPL-OPGD06A
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.7452	GEN335644 1-EXXON UNITS
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20801	102.7447	HAWTHORN - NASHUA 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20872	102.7419	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20801	102.738	KCPL-OPGD01A
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20812	102.7375	ELK CITY (ELKCTY-4) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.7368	GEN506753 1-LEBROCK GAS 2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20822	102.7352	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20764	102.7347	NORTHEAST STATION - TULSA NORTH 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.7306	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.7306	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20823	102.7288	NINNES3 115.00 - PRATT 115KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20804	102.726	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20809	102.7233	AI43
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20804	102.7229	MCELROY - STILLWATER 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.7208	GEN560118 1-G08-46 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20850	102.7191	CALUMET - WATONGA SW 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20801	102.7152	HAWTHORN - NASHUA 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20809	102.7109	7LUTESVIL 345.00 - 7ST FRANC 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20817	102.7095	EVANS ENERGY CENTER NORTH - MAIZE 4 138.00 138KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20822	102.7071	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20764	102.7057	NORTHEAST STATION - TULSA NORTH 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20823	102.7031	NINNESEC3 115.00 - ST JOHN 115KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20823	102.7003	NINNESEC3 115.00 - PRATT 115KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20840	102.6982	DBL-SPRVL-CO
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20850	102.6902	CALUMET - WATONGA SW 69KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.6664	GEN599891 1-OKLAUN
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.4335	BASE CASE
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.4033	BASE CASE
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.2627	GEN515389 1-TLGAWND1 34.500
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20733	102.1715	GRAY CO 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.1591	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.1542	GEN560140 1-G09-08 0.7000
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.1541	GEN539630 1-FLATRDG1 34.500
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.1526	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20787	102.1465	MAYFLOWER 500 - PLEASANT HILL 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.1381	GEN560235 1-G08-92 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.1367	GEN530639 01-HYSWNDG1 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20796	102.1363	BAXTER WILSON SES - RAY BRASWELL SES 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.1256	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.124	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.1225	GEN539630 1-FLATRDG1 34.500
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20733	102.1209	GRAY CO 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.1199	GEN641089 2-ENERGY CENTER 2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.1186	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.1154	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20786	102.1152	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.1128	GEN560694 1-G11-008-2 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.1108	GEN560695 1-G11-008-3 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.11	GEN560386 1-G10-029-1 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.11	GEN560387 1-G10-029-2 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.11	GEN560388 1-G10-029-3 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.107	GEN560235 1-G08-92 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.1054	GEN530639 01-HYSWNDG1 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20796	102.1049	BAXTER WILSON SES - RAY BRASWELL SES 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.1043	GEN560514 1-G04_014 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.1034	GEN560606 1-G07-11 0.5750
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.0885	GEN641089 2-ENERGY CENTER 2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.0882	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20740	102.0879	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20740	102.0847	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20786	102.0839	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20795	102.0832	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.082	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20632	102.0817	SOONER - WOODRING 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.0814	GEN560694 1-G11-008-2 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.0805	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.0797	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.0794	GEN560695 1-G11-008-3 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.0787	GEN560386 1-G10-029-1 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.0787	GEN560387 1-G10-029-2 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.0787	GEN560388 1-G10-029-3 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.0775	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	102.075	GEN515790 1-FPLWND2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	102.0732	GEN560606 1-G07-11 0.5750

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME			
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.073	GEN560514 1-G04_014 0.6900
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.0694	GEN520922 1-SLEEPING 138.00
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20823	102.0667	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20799	102.0653	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20740	102.0571	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20632	102.0551	SOONER - WOODRING 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20740	102.054	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20795	102.0517	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.0461	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.043	GEN515790 1-FPLWND2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.0423	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.0415	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.0396	GEN531486 1-CNTRPL2 34.500
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20903	102.0385	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.0377	GEN520922 1-SLEEPING 138.00
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20823	102.0348	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20799	102.0336	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.0289	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20838	102.0252	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.0239	GEN522814 1-LUBBOCK POWER & LIGHT-MACKENZIE GEN
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.0223	GEN524895 1-SAN JUAN MESA WIND GEN
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20806	102.0219	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.0185	CENTER GEN TRANS 4 - SQUARE BUTTE 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.0107	GEN560238 1-G10-09 0.6900
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20782	102.01	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20782	102.0096	AI12
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	102.0081	GEN531486 1-CNTRPL2 34.500
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20838	102.0072	OGE3TERM7
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.006	GEN560356 1-G10-53 0.6900
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	102.0058	GEN560693 1-G11-008-1 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20903	102.0046	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20782	101.9996	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20774	101.9987	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	101.9974	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	101.9969	GEN515397 1-OUSPRT 1 34.500
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	101.9954	GEN560432 1-G08-124 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	101.9944	GEN522814 1-LUBBOCK POWER & LIGHT-MACKENZIE GEN
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20838	101.9932	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	101.993	GEN524895 1-SAN JUAN MESA WIND GEN
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	101.9929	GEN560659 1-G07-38 0.6900
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20896	101.9908	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20806	101.9892	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	101.9876	CENTER GEN TRANS 4 - SQUARE BUTTE 230KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20787	101.9859	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	101.9833	GEN562035 1-G11-016 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	101.9796	GEN560238 1-G10-09 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20782	101.9781	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20782	101.9777	AI12
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20838	101.9751	OGE3TERM7
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	101.9742	GEN560356 1-G10-53 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	101.9739	GEN560693 1-G11-008-1 0.6900
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20794	101.9706	GEN560549 1-G06-06 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20782	101.9676	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20774	101.9661	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00	WWRDEHV7	345.00	345KV	CKT 1	1195	0.20697	101.9658	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00	TATONGA7	345.00	345KV	CKT 1	1195	0.20794	101.9643	GEN515397 1-OUSPRT 1 34.500



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME		RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.9636	GEN560432 1-G08-124 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.9612	GEN560659 1-G07-38 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20896	101.9591	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20783	101.9569	CIMARRON (CIMARON2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20787	101.9541	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20838	101.9537	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20838	101.9531	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20400	101.9524	MATTHEWSON 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.9516	GEN562035 1-G11-016 0.6900
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20838	101.951	SPP-WERE-41B
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.9421	GEN523277 1-VALERO SUB
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20783	101.9403	CIMARRON (CIMARON1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.9392	GEN560549 1-G06-06 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20697	101.9339	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20400	101.9326	MATTHEWSON 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20783	101.9244	CIMARRON (CIMARON2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20838	101.9212	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20838	101.9207	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.9185	GEN560209 1-G07-40 0.5750
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20838	101.9183	SPP-WERE-41B
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20804	101.916	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.9133	GEN523277 1-VALERO SUB
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20804	101.9099	AMRN_OUTS5
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20783	101.9077	CIMARRON (CIMARON1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.9037	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.9031	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.8971	GEN560329 1-G10-45 0.6900
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20773	101.8923	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.8918	GEN562032 1-G11-017 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.8873	GEN560209 1-G07-40 0.5750
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20838	101.8861	SPP-WERE-07B
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.8857	GEN560522 1-G05-12 0.6900
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.8849	GEN515364 1-CENT 11 0.6000
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20804	101.8839	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.8795	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20804	101.8777	AMRN_OUTS5
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.8743	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20766	101.8739	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.8737	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.8664	GEN560329 1-G10-45 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.86	GEN562032 1-G11-017 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20773	101.8589	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.854	GEN560522 1-G05-12 0.6900
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20838	101.8529	SPP-WERE-07B
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.8512	GEN515364 1-CENT 11 0.6000
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.8505	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.8464	GEN524285 1-WILDORADO WIND GEN
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20766	101.8418	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.8371	GEN560170 1-G08-16 34.500
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.8302	GEN560595 1-G06-47 0.6000
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.8294	GEN560592 1-G06-45 0.6000
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20685	101.8258	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	02ALL	2	11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20794	101.8257	GEN515393 1-OGEWNDZG
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.8179	GEN524285 1-WILDORADO WIND GEN
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.8079	GEN560170 1-G08-16 34.500
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	101.8014	GEN560595 1-G06-47 0.6000

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20804	101.8009	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.8005	GEN560592 1-G06-45 0.6000
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20685	101.7959	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.7928	GEN539677 3-A. M. MULLERGREN GENERATOR
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.7903	GEN515393 1-OGEWND2G
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.7774	GEN560180 1-G07-51 0.6000
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.776	GEN562014 1-G11-023 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20804	101.7683	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.7651	GEN560173 1-G08-17 0.5750
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.7599	GEN539677 3-A. M. MULLERGREN GENERATOR
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.7438	GEN562014 1-G11-023 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.7419	GEN560180 1-G07-51 0.6000
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.7342	GEN560173 1-G08-17 0.5750
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.7231	GEN560105 1-G08-22 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.7141	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20807	101.6993	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.6942	GEN560105 1-G08-22 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20773	101.6921	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20587	101.6871	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.6842	GEN531459 2-S2 GENERATOR
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.6834	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.6826	GEN560273 1-ASGI-10-11 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20807	101.6663	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20773	101.6584	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.6561	GEN560353 1-G10-52 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.6547	GEN560273 1-ASGI-10-11 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.6542	GEN531459 2-S2 GENERATOR
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20587	101.654	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.6252	GEN560353 1-G10-52 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.5531	GEN560221 1-G07-62-1 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.5531	GEN560222 1-G07-62-2 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.5531	GEN560223 1-G07-62-3 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.5531	GEN560224 1-G07-62-4 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20868	101.5383	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.5212	GEN560359 1-G08-51 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.5157	GEN560221 1-G07-62-1 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.5157	GEN560222 1-G07-62-2 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.5157	GEN560223 1-G07-62-3 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.5157	GEN560224 1-G07-62-4 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20868	101.5039	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.4981	GEN560584 1-G06-44-1 0.6000
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.4935	GEN560359 1-G08-51 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.4722	GEN560187 1-G10-07 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.4705	GEN560584 1-G06-44-1 0.6000
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.4664	GEN520997 1-MORIND2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20663	101.4651	CLEVELAND - SOONER 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.454	GEN523926 1-MAJESTC_WND3115.00
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.4451	GEN560187 1-G10-07 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20663	101.4368	CLEVELAND - SOONER 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.4334	GEN560166 1-G07-48 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.4268	GEN523926 1-MAJESTC_WND3115.00
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.426	GEN560570 1-G06-39 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.4234	GEN520997 1-MORIND2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.4056	GEN560166 1-G07-48 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.3983	GEN560570 1-G06-39 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.3962	GEN560279 1-G08-18 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME			RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.3775	GEN560429 1-G08-29 0.6400
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.365	GEN560279 1-G08-18 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.3408	GEN560429 1-G08-29 0.6400
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.2219	GEN523195 1-Hansford County Switch Station
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.2152	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.2152	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.2132	GEN562023 1-G11-020 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.2132	GEN562026 1-G11-019 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.1954	GEN523195 1-Hansford County Switch Station
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.1887	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.1887	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.1876	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.173	GEN560539 1-G05-17-2 34.500
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.1654	GEN562023 1-G11-020 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.1654	GEN562026 1-G11-019 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.1545	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.1466	GEN560539 1-G05-17-2 34.500
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.0409	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20530	101.032	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	101.0308	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	101.0081	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	100.9975	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20530	100.9958	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20331	100.9619	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	100.9589	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	100.9588	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	100.9567	GEN527165 1-Mustang Gen #5
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	100.9548	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20453	100.9439	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20331	100.9363	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	100.9314	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	100.9314	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	100.9293	GEN527165 1-Mustang Gen #5
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	100.9273	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20453	100.9074	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	100.8758	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	100.8665	GEN562049 1-G11-012 0.6900
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	100.8485	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	100.8413	GEN562049 1-G11-012 0.6900
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.21730	100.7937	G05-17T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.21730	100.7594	G05-17T 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20236	100.7257	BORDER 7345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	100.7064	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	100.7064	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	100.6794	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	100.6794	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20236	100.6673	BORDER 7345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20474	100.565	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20474	100.5338	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	100.392	GEN560536 1-G05-17-1 34.500
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	100.392	GEN560540 1-G05-17-3 34.500
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	100.3669	GEN560536 1-G05-17-1 34.500
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	100.3669	GEN560540 1-G05-17-3 34.500
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	100.2378	GEN560585 1-G06-44-2 0.6000
FDNS	02ALL		2 11G	G11_022	FROM->TO	G11-015T	345.00 - TATONGA7	345.00 345KV CKT 1	1195	0.20794	100.2135	GEN560585 1-G06-44-2 0.6000
FDNS	02ALL		2 11G	G11_022	TO->FROM	G11-015T	345.00 - WWRDEHV7	345.00 345KV CKT 1	1195	0.20794	100	GEN527903 1-HOBBS PLANT #3 (ST)

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20794	100	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02ALL	3	11G	G11_022	TO->FROM	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.35876	115.2728	DBL-HIT-G084
FDNS	02G11_022	0	11G	G11_022	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21446	126.8178	DBL-MEDLO-WI
FDNS	02G11_022	0	11G	G11_022	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.30285	115.0261	DBL-G0847-WO
FDNS	02G11_022	0	11G	G11_022	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21215	114.513	DBL-WOOD-MED
FDNS	02G11_022	0	11G	G11_022	TO->FROM	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.36065	109.1	DBL-HIT-G084
FDNS	02G11_022	0	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21446	101.6592	DBL-MEDLO-WI
FDNS	02G11_022	0	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21446	101.6583	DBL-MEDLO-WI
FDNS	02G11_022	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.26650	132.3245	DBL-MEDLO-WI
FDNS	02G11_022	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.26650	132.3245	DBL-MEDLO-WI
FDNS	02G11_022	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.26150	117.8545	DBL-WOOD-MED
FDNS	02G11_022	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.26150	117.8529	DBL-WOOD-MED
FDNS	02G11_022	2	11G	G11_022	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.30234	115.1813	DBL-G0847-WO
FDNS	02G11_022	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22918	114.6277	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02G11_022	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22918	114.6193	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02G11_022	2	11G	G11_022	TO->FROM	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.36025	109.2	DBL-HIT-G084
FDNS	02G11_022	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22918	107.2586	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02G11_022	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22918	107.2493	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02G11_022	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22918	106.2789	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02G11_022	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22918	106.2688	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02G11_022	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22302	103.7076	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02G11_022	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22302	103.7076	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02G11_022	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22302	103.707	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02G11_022	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22302	103.707	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02G11_022	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22443	101.7114	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02G11_022	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22443	101.7114	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02G11_022	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22443	101.6882	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02G11_022	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22443	101.6882	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02G11_022	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22657	101.5986	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02G11_022	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22657	101.5389	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02G11_022	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20882	100.9234	GEN336821 1-GRAND GULF UNIT
FDNS	02G11_022	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20882	100.9105	GEN336821 1-GRAND GULF UNIT
FDNS	02G11_022	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.20882	100.3195	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02G11_022	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.20882	100.306	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02G11_022	3	11G	G11_022	FROM->TO	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1	1328	0.30245	115.3055	DBL-G0847-WO
FDNS	02G11_022	3	11G	G11_022	TO->FROM	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1	1052	0.36034	109.4	DBL-HIT-G084
FDNS	03ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21574	103.615	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21574	103.615	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21574	103.6141	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21574	103.6141	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	11G	G11_022	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21256	100.3479	MINGO - SETAB 345KV CKT 1
FDNS	03ALL	2	11G	G11_022	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21256	100.3311	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	3	0	11G	G11_023		Non Converged Contingency	0	0.45691	-	DBL-COM-MEDL
FNSL-Blown up	3	0	11G	G11_023		Non Converged Contingency	0	0.30156	-	DBL-MEDLO-WI
FNSL-Blown up	3	2	11G	G11_023		Non Converged Contingency	0	0.45669	-	DBL-COM-MEDL
FNSL-Blown up	3	2	11G	G11_023		Non Converged Contingency	0	0.29114	-	DBL-MEDLO-WI
FNSL-Blown up	3	3	11G	G11_023		Non Converged Contingency	0	0.45679	-	DBL-COM-MEDL
FNSL-Blown up	3	3	11G	G11_023		Non Converged Contingency	0	0.29098	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G11_023		Non Converged Contingency	1195	0.11797	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_023		Non Converged Contingency	1195	0.11797	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_023		Non Converged Contingency	1195	0.11797	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_023		Non Converged Contingency	0	0.30309	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	G11_023		Non Converged Contingency	0	0.29776	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL	0	11G	G11_023		Non Converged Contingency	0	0.06953	-	DBL-G0847-WO
FNSL-Blown up	02ALL	2	11G	G11_023		Non Converged Contingency	0	0.07591	-	DBL-G0847-WO
FNSL-Blown up	02ALL	3	11G	G11_023		Non Converged Contingency	0	0.07637	-	DBL-G0847-WO

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	1195	0.10399	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	1195	0.10399	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	1195	0.10399	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	1052	0.07133	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	1792	0.13841	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	1328	0.04120	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	1195	0.12306	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	1195	0.12306	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	1792	0.12128	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	0	0.40270	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	0	0.40270	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	0	0.24623	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	0	0.05598	-	DBL-G0847-WO
FNSL-Blown up	03ALL		0 11G	G11_023		Non Converged Contingency	0	0.14509	-	DBL-WOOD-MED
FNSL-Blown up	03ALL		2 11G	G11_023		Non Converged Contingency	1195	0.12889	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_023		Non Converged Contingency	1052	0.07290	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_023		Non Converged Contingency	1195	0.12153	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_023		Non Converged Contingency	1792	0.20160	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_023		Non Converged Contingency	1792	0.20160	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 2
FNSL-Blown up	03ALL		2 11G	G11_023		Non Converged Contingency	0	0.40320	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		2 11G	G11_023		Non Converged Contingency	0	0.40320	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		2 11G	G11_023		Non Converged Contingency	0	0.23757	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	G11_023		Non Converged Contingency	1792	0.13048	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_023		Non Converged Contingency	1195	0.12152	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_023		Non Converged Contingency	1195	0.12152	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_023		Non Converged Contingency	0	0.40333	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		3 11G	G11_023		Non Converged Contingency	0	0.40333	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		3 11G	G11_023		Non Converged Contingency	0	0.23745	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	G11_023		Non Converged Contingency	0	0.06243	-	DBL-G0847-WO
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	1792	0.13032	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	1792	0.13032	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	1052	0.07254	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	1052	0.07254	-	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	398	0.03871	-	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	1792	0.13588	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	1195	0.12080	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	1195	0.12080	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	1792	0.11809	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	1792	0.11809	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	319	0.03450	-	CIRCLE - MULLERGREN 230KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	1792	0.12394	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	1195	0.12080	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	956	0.03442	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	1792	0.20105	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	1792	0.20105	-	COMANCH5 345.00 - MED-LDG5 345.00 345KV CKT 2
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	0	0.40210	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	0	0.23617	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		4 11G	G11_023		Non Converged Contingency	0	0.15509	-	DBL-WOOD-MED
FNSL-Blown up	03G11_023		0 11G	G11_023		Non Converged Contingency	0	0.45683	-	DBL-COM-MEDL
FNSL-Blown up	03G11_023		0 11G	G11_023		Non Converged Contingency	0	0.30143	-	DBL-MEDLO-WI
FNSL-Blown up	03G11_023		2 11G	G11_023		Non Converged Contingency	0	0.45661	-	DBL-COM-MEDL
FNSL-Blown up	03G11_023		2 11G	G11_023		Non Converged Contingency	0	0.29102	-	DBL-MEDLO-WI
FNSL-Blown up	03G11_023		3 11G	G11_023		Non Converged Contingency	0	0.45671	-	DBL-COM-MEDL
FDNS	2		2 11G	G11_023	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22302	121.0025	DBL-MEDLO-WI
FDNS	2		2 11G	G11_023	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22302	121.0023	DBL-MEDLO-WI
FDNS	02ALL		2 11G	G11_023	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22112	144.3307	DBL-MEDLO-WI

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	2	11G	G11_023	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22112	144.3306	DBL-MEDLO-WI
FNSL-Blown up	3	0	11G	G11_024		Non Converged Contingency	0	0.14789	-	DBL-MEDLO-WI
FNSL-Blown up	3	2	11G	G11_024		Non Converged Contingency	0	0.09545	-	DBL-MEDLO-WI
FNSL-Blown up	3	3	11G	G11_024		Non Converged Contingency	0	0.09502	-	DBL-MEDLO-WI
FNSL-Blown up	00G11_024	0	12SP	G11_024		Non Converged Contingency	1195	0.51644	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	00G11_024	0	12SP	G11_024		Non Converged Contingency	1195	0.51644	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	00G11_024	0	12WP	G11_024		Non Converged Contingency	1195	0.51840	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	00G11_024	0	12WP	G11_024		Non Converged Contingency	1195	0.51840	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	00G11_024	0	16SP	G11_024		Non Converged Contingency	1195	0.51737	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	00G11_024	0	16SP	G11_024		Non Converged Contingency	1195	0.51737	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	00G11_024	0	16WP	G11_024		Non Converged Contingency	1195	0.51842	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	00G11_024	0	16WP	G11_024		Non Converged Contingency	1195	0.51842	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_024		Non Converged Contingency	1195	0.48803	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL	0	11G	G11_024		Non Converged Contingency	0	0.14945	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL	0	11G	G11_024		Non Converged Contingency	0	0.16151	-	DBL-G0847-WO
FNSL-Blown up	01ALL	0	11G	G11_024		Non Converged Contingency	0	0.19687	-	DBL-WOOD-MED
FNSL-Blown up	01G11_024	0	11G	G11_024		Non Converged Contingency	1195	0.48716	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	02ALL	0	11G	G11_024		Non Converged Contingency	0	0.14411	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	0	11G	G11_024		Non Converged Contingency	1195	0.48113	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_024		Non Converged Contingency	1792	0.04152	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_024		Non Converged Contingency	1328	0.03315	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL	0	11G	G11_024		Non Converged Contingency	0	0.13578	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	2	11G	G11_024		Non Converged Contingency	0	0.08729	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	3	11G	G11_024		Non Converged Contingency	0	0.08691	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL	4	11G	G11_024		Non Converged Contingency	1792	0.03285	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_024		Non Converged Contingency	1792	0.04280	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_024		Non Converged Contingency	1792	0.04280	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL	4	11G	G11_024		Non Converged Contingency	0	0.08560	-	DBL-MEDLO-WI
FNSL	1	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	116.0234	GEN336153 1-WATERFORD UNIT#3
FNSL	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	145.8511	GEN336153 1-WATERFORD UNIT#3
FNSL	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48816	137.8051	NEB01WAPAB3
FNSL	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	106.1292	GEN336153 1-WATERFORD UNIT#3
FNSL	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	106.1281	GEN336153 1-WATERFORD UNIT#3
FNSL	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	104.188	GEN337652 1-WHITE BLUFF UNIT #1
FNSL	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	104.187	GEN337652 1-WHITE BLUFF UNIT #1
FNSL	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.1704	GEN338189 1-LS POWER OSCEOLA UNIT G1
FNSL	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.1695	GEN338189 1-LS POWER OSCEOLA UNIT G1
FNSL	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	127.9464	GEN336153 1-WATERFORD UNIT#3
FNSL	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47988	118.5073	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FNSL	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47988	111.0464	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FNSL	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47988	110.2866	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FNSL	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48507	103.0766	MINGO - SETAB 345KV CKT 1
FNSL	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48558	103.0695	MINGO - RED WILLOW 345KV CKT 1
FNSL	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48519	103.0261	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48519	102.5595	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FNSL	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	102.0113	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FNSL	03ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48113	100.2765	GEN336153 1-WATERFORD UNIT#3
FNSL	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	121.3534	GEN336153 1-WATERFORD UNIT#3
FDNS	1	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48668	109.116	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	1	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48674	108.3567	LACYGNE - STILWELL 345KV CKT 1
FDNS	1	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48679	108.3809	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	1	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48637	110.1708	LACYGNE - NEOSHO 345KV CKT 1
FDNS	1	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48738	109.34	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	1	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48730	109.6387	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	1	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48729	108.5244	BENTON - WOLF CREEK 345KV CKT 1
FDNS	1	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.52078	138.0853	DBL-MEDLO-WI

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.54111	133.7625	DBL-WOOD-MED
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48683	118.5755	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	116.5963	GEN336821 1-GRAND GULF UNIT
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.50258	115.8282	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.50258	115.8282	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	115.5323	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49506	115.3817	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49506	115.3817	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	115.057	GEN335831 1-RIVERBEND UNIT#1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49062	114.5459	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	114.4333	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	113.659	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	113.4725	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	113.4033	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	113.3457	GEN501801 1-DOLET HILLS UNIT1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	113.3133	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48683	112.9962	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49596	112.92	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.7897	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.6781	GEN514806 1-SOONER UNIT 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.6755	GEN337041 1-GERALD ANDRUS
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.6407	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.5888	GEN509403 1-PIRKEY GENERATION
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.572	GEN515226 1-MUSKOGEE 6G
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.5604	GEN501813 1-RODEMACHER UNIT 3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.3479	GEN514805 1-SOONER UNIT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48683	112.2525	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.2284	GEN336831 1-BAXTER WILSON SES
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.0837	GEN515223 1-MUSKOGEE 4G
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.0833	GEN501812 1-RODEMACHER UNIT 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.0414	GEN335206 1-NELSON UNIT 6
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.033	GEN515225 1-MUSKOGEE 5G
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	112.004	GEN520947 1-HUGO1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49062	111.9278	DEWEY - SOUTHARD 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49036	111.8881	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.8328	GEN334440 1-SABINE UNIT 4
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.832	GEN509406 1-WELSH #3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.8319	GEN509405 1-WELSH #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.8318	GEN509404 1-WELSH #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.7995	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.71	GEN335204 1-NELSON UNIT 4
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49059	111.6932	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49059	111.6716	IMO TAP - MEN TAP 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48991	111.6251	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.6209	GEN509394 1-FLINT CREEK
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49062	111.6027	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49024	111.5833	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48991	111.5508	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.4576	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49036	111.4231	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.4122	GEN334441 1-SABINE UNIT 5
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.3957	GEN511841 1-NORTHEASTERN STATION #4
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.3673	GEN511840 1-NORTHEASTERN STATION #3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.3416	GEN511839 1-NORTHEASTERN STATION #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48299	111.253	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49085	111.1962	MINGO - RED WILLOW 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.1948	GEN512689 1-GRDA1 GSU1 22
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49031	111.1903	MINGO - SETAB 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	111.0569	GEN512688 2-GRDA1 GSU2 22
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48914	111.0239	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48914	110.9925	CEDARDALE - OKEENE 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.9616	GEN515042 1-SEMINOLE 3G
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.9279	GEN560687 1-G11-007 0.5750
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48598	110.8109	ELK CITY 230KV - SWEETW76 230.00 230KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48988	110.8108	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48598	110.8105	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49070	110.7995	BENTON - WICHITA 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48988	110.7991	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.6911	GEN515041 1-SEMINOLE 2G
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.6124	GEN336170 1-GULF OXY U4
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49538	110.6044	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.5979	GEN509409 1-WILKES #3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.5787	GEN515040 1-SEMINOLE 1G
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.5344	GEN514910 2-REDBUD GEN
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.5344	GEN514911 2-REDBUD GEN
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48962	110.5051	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.505	GEN300006 1-NEW MADRID UNIT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48892	110.5032	DOVER SW - OKEENE 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.4994	GEN300007 1-NEW MADRID UNIT 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49334	110.4301	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48515	110.4277	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.3698	GEN514998 1-MCLLAIN UNIT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.3698	GEN514999 1-MCLLAIN UNIT 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48737	110.36	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.3158	GEN514899 1-REBUD1S
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.3158	GEN514900 1-REBUD2S
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.2896	GEN334070 1-LEWIS CREEK 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.2476	GEN511843 1-RIVERSIDE STATION #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.2453	GEN542955 1-LACYGNE UNIT #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48955	110.2434	HOLCOMB - SETAB 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	110.1387	GEN542956 2-LACYGNE UNIT #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48787	110.0077	SPP-MKEC-08
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48598	110.0065	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.9999	GEN542962 2-IATAN UNIT #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48637	109.9472	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48762	109.936	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48754	109.9337	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.9205	GEN505432 1-SIKESTON
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48832	109.902	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48754	109.8902	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.8477	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.8477	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48741	109.8424	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.8388	GEN318007 1-SMOROW161 161.00
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.837	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.8231	GEN334030 1-FRONTIER UNIT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.8205	GEN560639 1-ASGI-10-07 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.8204	GEN560636 1-ASGI-10-06 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.8148	GEN501823 1-TECHE UNIT 3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.8133	GEN337428 1-PERYVILLE UNIT #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.8133	GEN337430 1-PERYVILLE UNIT #3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7891	GEN515266 1-AES 1G



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7891	GEN515267 1-AES 2G
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7829	GEN337429 1-PERYVILLE UNIT #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7829	GEN337432 1-PERYVILLE UNIT #5
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7746	GEN542957 1-IATAN UNIT #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7724	GEN514905 1-REBUD3S
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48747	109.7714	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.763	GEN337125 6-LS POWER BATESVILLE
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48598	109.7559	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48598	109.7559	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48598	109.7559	SPP-SWPS-02
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48787	109.7551	SPP-WERE-34
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48787	109.7523	SPP-MKEC-05
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48836	109.7513	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7497	GEN337006 1-DUKE MCADAMS G1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7497	GEN337007 1-DUKE MCADAMS G2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48765	109.7436	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48515	109.7359	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.734	GEN335203 1-NELSON UNIT 3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7289	GEN337008 1-DUKE MCADAMS S1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48763	109.7218	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7197	GEN334031 1-FRONTIER UNIT 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7166	GEN336167 1-GULF OXY U1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7166	GEN336168 1-GULF OXY U2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7166	GEN336169 1-GULF OXY U3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7096	GEN542951 5-HAWTHORN UNIT #5
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7085	GEN335076 1-DYNEGY UNIT2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48763	109.708	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.7002	GEN501911 1-ACADIA UNIT CT1A
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.6955	GEN337421 1-OUCHITA CTG1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.6955	GEN337423 1-OUCHITA CTG2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.6955	GEN337425 1-OUCHITA CTG3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48787	109.6875	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.6862	GEN547649 1-ASBURY UNIT #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48732	109.6839	WRTOD400
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.6723	GEN334392 1-EXXON MOBIL IPP 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.6685	GEN335075 1-DYNEGY#1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.6637	GEN514912 2-REBUD GEN
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48832	109.6622	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48983	109.6421	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.50948	109.6379	DBL-G0847-WO
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48838	109.6346	DOVER SW - HENESSEY 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48886	109.6331	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.6268	GEN506752 1-LEBROCK GAS 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48836	109.6188	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.6169	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.6169	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48774	109.6155	AXTELL - PAULINE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48850	109.6141	OGE3TERM1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.6074	GEN640009 1-COOPER NUCLEAR STATION
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.604	GEN338500 1-MCCLELLAN UNIT #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.6009	GEN515000 1-MCCLAIN UNIT 3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.6008	GEN549890 1-SOUTHWEST 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48771	109.5965	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48851	109.5859	BENTON - ROSE HILL 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48838	109.5597	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.5573	GEN300003 1-THOMAS HILL UNIT 3

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48676	109.5512	DBL-COM-MEDL
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48838	109.5266	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.5259	GEN511836 1-NORTHEASTERN STATION #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.5198	GEN560323 1-G10-40 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48767	109.5141	MOORE - PAULINE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.5103	GEN337954 1-LYNCH UNIT #3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.5044	GEN560623 1-ASGI-10-01 0.6000
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48299	109.5034	G11-007T 345.00 - WOODRING 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4942	GEN547656 1-STATE LINE UNIT #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48782	109.4786	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4724	GEN541151 3-SIBLEY GENERATING UNIT #3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48741	109.4695	KNOLL 230 - SMOXYHL6 230.00 230KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4659	GEN300031 1-CHOUTEAU CTG 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4659	GEN300032 1-CHOUTEAU CTG 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4583	GEN520812 1-ANADRK5
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4582	GEN520813 1-ANADRK6
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4554	GEN338513 1-BAILEY UNIT #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4548	GEN335201 1-NELSON UNIT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4511	GEN645012 2-NEBRASKA CITY 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4425	GEN511953 G-COGENTRIX GAS # 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4421	GEN515443 1-MNCOWND1 34.500
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.442	GEN511954 S-COGENTRIX STEAM # 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4326	GEN599891 1-OKLAUN
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4241	GEN549893 2-SOUTHWEST 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4225	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4137	GEN338510 1-1S1KNWRI
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4116	GEN511938 1-OEC STEAM # 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.4042	GEN511851 1-COMANCHE #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48834	109.3992	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3958	GEN501910 1-ACADIA UNIT ST1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49427	109.3945	DBL-HIT-G084
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.393	GEN335202 1-NELSON UNIT 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3901	GEN503900 1-FITZHUGH CT1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48858	109.3807	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48682	109.3737	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3695	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48598	109.3586	SPP-SWPS-02A
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3578	GEN520811 1-ANADRK4
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3569	GEN337422 1-OUCHITA STG1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3569	GEN337424 1-OUCHITA STG2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3569	GEN337426 1-OUCHITA STG3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3546	GEN506749 1-EASTMAN GENERATION A
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48836	109.3526	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3515	GEN645011 1-NEBRASKA CITY 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48834	109.3413	DEWEY - IODINE 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.339	GEN300002 1-THOMAS HILL UNIT 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48735	109.3383	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3359	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.334	GEN335545 1-DOW AEP UNITS
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3338	GEN337124 5-LS POWER BATESVILLE
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48579	109.3329	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48705	109.3301	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3252	GEN300016 1-1G1GPDEL 18.000
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3251	GEN300017 1-1G2GPDEL 18.000
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3182	GEN521129 1-BLUCANS 4 138.00
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48736	109.3031	PUTNAM - TALOGA 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.3029	GEN335137 C4-PPG
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48685	109.3023	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48754	109.2994	KNOBHILL - SALINE 69KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48735	109.295	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48691	109.2945	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48754	109.2902	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48722	109.2895	CIMARRON - EL RENO 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48736	109.2844	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48736	109.284	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48736	109.2828	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48696	109.2771	OGE3TERM2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48715	109.2769	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48694	109.2744	MORRISON - STILLWATER 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48684	109.2701	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48983	109.2673	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48698	109.2592	MARSHALL - WOODRING 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2589	GEN334467 1-DUPONT UNIT#1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48736	109.2554	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2524	GEN645001 1-FORT CALHOUN 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48698	109.2507	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2482	GEN500915 3-WESTERN KRAFT
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2422	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2411	GEN546702 1-NM GEN N1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2409	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48733	109.2368	OKEENE - WATONGA SW 69KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2356	GEN335546 3-DOW COGEN
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2337	GEN334232 1-PELCLNRD U1 13.800
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2337	GEN334233 1-PELCLNRD U2 13.800
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2335	GEN334335 1-TOLEDO BEND
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.232	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48682	109.2309	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48692	109.2283	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2245	GEN511853 1-COMANCHE #3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48754	109.2233	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2216	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48701	109.2208	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48682	109.2207	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2202	GEN334298 1-CYPR U1 13.800
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2202	GEN334299 1-CYPR U2 13.800
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2199	GEN511852 1-COMANCHE #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2149	GEN560645 1-ASGI-10-09 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48685	109.2124	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48702	109.2121	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2084	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2084	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48754	109.2066	GOLTRY - IMO 69KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2033	GEN549899 5-JAMES RIVER 5
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.2031	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48765	109.1961	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1944	GEN560169 1-G08-13 0.5750
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48771	109.1912	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48722	109.1909	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1875	GEN335644 1-EXXON UNITS
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48690	109.1865	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48682	109.1804	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48719	109.1731	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48798	109.1727	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48886	109.1697	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48707	109.1659	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48733	109.1648	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	109.1634	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48736	109.1625	CORDELL - GOTEBO 69KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1625	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1614	MCELROY - STILLWATER 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1533	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1522	GEN506753 1-LEBROCK GAS 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	109.1507	CANTON - TALOGA 69KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	109.1472	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1472	SPP-SWPS-T54
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48717	109.1447	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48707	109.1396	OVERTON-TRF
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48685	109.1395	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1354	GEN560118 1-G08-46 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48698	109.1299	BROOKLINE - MORGAN 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1296	GEN542952 1-MONTROSE UNIT #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1287	GEN334458 1-CONOCO UNIT#3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	109.1241	CANTON - OKEENE 69KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	109.1225	HYDRO - WEATHERFORD 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1225	GEN334282 1-SAM RAYBURN 4
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1199	GEN300001 1-THOMAS HILL UNIT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1198	KINZE - MCELROY 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1197	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.119	GEN509408 1-WILKES #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48685	109.1149	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48696	109.1111	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1105	GEN542954 3-MONTROSE UNIT #3
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1069	GEN335640 1-ENCO
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48702	109.1035	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48697	109.1032	STEGALL - WAYSIDE 230KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48717	109.1026	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.1004	GEN506750 1-EASTMAN GENERATION B
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.0992	GEN338511 1-1C7KNWRI
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.097	CLINTON - MONTROSE 161KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48698	109.0952	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	109.0938	HYDRO - SICKLES 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48709	109.093	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.0919	CHILDRESS - LAKE PAULINE 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	109.0901	OGE3TERM10
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48751	109.0748	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.7926	BASE CASE
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48678	108.503	ARKANSAS NUCLEAR ONE - MABELVALE 500 500KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.5006	GEN539677 3-A. M. MULLERGRN GENERATOR
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.4989	GEN560549 1-G06-06 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.4934	GEN560238 1-G10-09 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.4885	GEN560585 1-G06-44-2 0.6000
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.4869	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48618	108.4836	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48686	108.4802	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48491	108.4683	G08-127T 345.00 - SOONER 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48689	108.4672	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.4581	GEN562032 1-G11-017 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48650	108.4568	OGE3TERM14

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.446	GEN560329 1-G10-45 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48312	108.4432	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.443	GEN560209 1-G07-40 0.5750
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.4427	GEN560522 1-G05-12 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.4327	GEN560170 1-G08-16 34.500
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.4313	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48734	108.4213	WWRDEHV7 345.00 (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.417	GEN524285 1-WILDORADO WIND GEN
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.4151	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.4078	GEN560595 1-G06-47 0.6000
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.4072	GEN560592 1-G06-45 0.6000
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48679	108.3881	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48693	108.3863	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.3835	GEN560286 1-G10-01-1WTG 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.3835	GEN560287 1-G10-01-2WTG 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48640	108.3827	DELAWARE - NEOSHO 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48616	108.3799	CLEVELAND - SOONER 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48680	108.3751	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.3729	GEN562014 1-G11-023 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48648	108.3679	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48648	108.3675	All2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48648	108.3671	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48578	108.3669	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.3659	GEN560256 1-G10-14-1 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.3636	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.3612	GEN560371 1-G07-46 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.3597	GEN560586 1-G06-44-3 0.6000
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.3569	GEN560257 1-G10-14-2 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48680	108.353	OGE3TERM7
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.3487	GEN560173 1-G08-17 0.5750
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.3476	GEN560105 1-G08-22 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48515	108.3413	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48734	108.331	WWRDEHV7 345.00 (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48690	108.3278	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48690	108.3229	AMRN_OUT55
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48680	108.3105	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48680	108.3103	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48680	108.3092	SPP-WERE-41B
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48656	108.3019	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.274	GEN560353 1-G10-52 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.2415	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48680	108.2384	SPP-WERE-07B
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.2311	GEN562042 1-G11-014 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.2251	GEN523103 1-NOBLE_WND 3115.00
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48691	108.2221	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48514	108.1933	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48514	108.1895	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.1886	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.184	GEN560359 1-G08-51 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.1601	GEN560166 1-G07-48 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.1467	GEN560570 1-G06-39 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48691	108.1291	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48491	108.1041	G08-127T 345.00 - ROSE HILL 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.1023	GEN560190 1-G10-08 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.1005	GEN560279 1-G08-18 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48654	108.0833	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.0786	GEN523462 1-BLACKHAWK GEN #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.0785	GEN523461 1-BLACKHAWK GEN #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.0767	GEN562017 1-G11-022 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48592	108.0735	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48429	108.0463	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.0227	GEN562020 1-G11-021 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.0173	GEN520997 1-MORIND2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48489	108.0043	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	108.0042	GEN560598 1-G06-49 0.6000
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.9728	GEN527165 1-Mustang GEN #5
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.9726	GEN527161 1-MUSTANG GEN #1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.9726	GEN527162 1-MUSTANG GEN #2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.9715	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.9649	GEN560121 1-G08-47 0.5750
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.9281	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.8781	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48583	107.868	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.8658	GEN515389 1-TLGAWND1 34.500
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.8535	GEN560155 1-G10-11 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.8091	GEN520922 1-SLEEPING 138.00
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48642	107.7977	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.7619	GEN515790 1-FPLWND2
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.7125	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.7125	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.5769	GEN515397 1-OUSPR1 34.500
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48372	107.5602	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.2644	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	107.2484	GEN515364 1-CENT 11 0.6000
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48216	107.2376	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47580	107.1475	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	106.9057	GEN515393 1-OGEWND2G
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	106.7804	GEN525561 1-TOLK GEN #1 24 KV
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	106.6947	GEN560180 1-G07-51 0.6000
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	106.6592	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	106.6533	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	106.653	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	106.2179	GEN560221 1-G07-62-1 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	106.2179	GEN560222 1-G07-62-2 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	106.2179	GEN560223 1-G07-62-3 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	106.2179	GEN560224 1-G07-62-4 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	106.0553	GEN531447 1-HOLCOMB GENERATOR
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	105.7761	GEN525562 1-TOLK GEN #2 24 KV
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	105.7355	GEN560429 1-G08-29 0.6400
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46658	105.0826	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	104.8044	GEN562023 1-G11-020 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	104.8044	GEN562026 1-G11-019 0.6900
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	102.431	GEN560648 1-G07-21 0.5750
FDNS	1		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48688	102.425	GEN560115 1-G08-44 0.6900
FDNS	1		2 11G	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40920	148.6063	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	1		2 11G	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40921	148.6019	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	1		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.45411	131.1941	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	1		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.45412	131.1907	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	1		2 11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.51443	112.7156	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	1		2 11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.51443	112.7156	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	1		2 11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.51443	112.713	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	1		2 11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.51443	112.713	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	2		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.51567	116.9574	DBL-MEDLO-WI
FDNS	2		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.53625	105.8729	DBL-WOOD-MED
FDNS	2		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48128	101.7229	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		2 11G	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40521	118.4226	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	2		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.44937	104.974	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	3		2 11G	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40525	127.0523	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	3		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.44967	111.2313	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00G11_024		0 12SP	G11_024	TO->FROM	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	1.00000	115.1872	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_024		0 16WP	G11_024	TO->FROM	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	1.00000	115.1547	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_024		0 12WP	G11_024	TO->FROM	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	1.00000	115.1442	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_024		0 16SP	G11_024	TO->FROM	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	1.00000	115.0843	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_024		0 12SP	G11_024	FROM->TO	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	1.00000	115.084	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_024		0 16WP	G11_024	FROM->TO	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	1.00000	115.0503	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_024		0 12WP	G11_024	FROM->TO	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	1.00000	115.0394	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_024		0 16SP	G11_024	FROM->TO	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	1.00000	114.9772	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_024		0 12WP	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.53557	100.509	DBL-WOOD-MED
FDNS	00G11_024		0 12WP	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.51444	100.4236	DBL-MEDLO-WI
FDNS	00G11_024		0 16WP	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.53487	100.0983	DBL-WOOD-MED
FDNS	00G11_024		0 16WP	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.51424	100.0926	DBL-MEDLO-WI
FDNS	00G11_024		2 12WP	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40655	111.3564	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00G11_024		2 12WP	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40655	111.3552	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00G11_024		2 16WP	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40452	109.5578	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00G11_024		2 16WP	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40452	109.5568	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00G11_024		2 16SP	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40538	104.3059	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00G11_024		2 16SP	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40538	104.3047	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29538	100.4719	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29538	100.4725	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48789	136.3785	LACYGNE - STILWELL 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48795	136.4528	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48759	138.4028	LACYGNE - NEOSHO 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29487	101.4572	LACYGNE - NEOSHO 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29487	101.4565	LACYGNE - NEOSHO 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48853	137.5417	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29619	100.8809	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29619	100.8805	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48845	137.9121	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29610	101.2534	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29610	101.253	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48809	151.5356	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.50358	150.1586	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.50358	150.1586	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49182	147.2281	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49612	147.1828	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49612	147.1828	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	146.5581	GEN336821 1-GRAND GULF UNIT
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	145.196	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	144.5831	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	143.7912	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49717	143.6584	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48809	143.3309	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	142.8176	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	142.3999	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	142.3551	GEN501801 1-DOLET HILLS UNIT1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49142	142.3361	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48809	142.3323	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49174	142.0662	CLEO CORNER - MEN TAP 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49174	142.0287	IMO TAP - MEN TAP 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49131	141.9766	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49182	141.924	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49106	141.8619	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49106	141.7372	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	141.7259	GEN514806 1-SOONER UNIT 2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	141.6643	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49142	141.6308	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49188	141.5823	MINGO - RED WILLOW 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	141.5734	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	141.5335	GEN337041 1-GERALD ANDRUS
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49135	141.5092	MINGO - SETAB 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49182	141.4891	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	141.4261	GEN501813 1-RODEMACHER UNIT 3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	141.4193	GEN514805 1-SOONER UNIT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	141.3439	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	141.1923	GEN509403 1-PIRKEY GENERATION
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49113	141.1805	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49113	141.1429	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49655	141.0633	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.9721	GEN336831 1-BAXTER WILSON SES
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49441	140.9176	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.8378	GEN501812 1-RODEMACHER UNIT 2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.7942	GEN515040 1-SEMINOLE 1G
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.7903	GEN335206 1-NELSON UNIT 6
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.7646	GEN515223 1-MUSKOGEE 4G
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.7313	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.7052	GEN515225 1-MUSKOGEE 5G
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49030	140.6306	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49030	140.5783	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.5397	GEN520947 1-HUGO1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.5347	GEN334440 1-SABINE UNIT 4
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.3822	GEN335204 1-NELSON UNIT 4
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.3324	GEN509406 1-WELSH #3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.3323	GEN509405 1-WELSH #2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.3322	GEN509404 1-WELSH #1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.1561	GEN509394 1-FLINT CREEK
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.0507	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49185	140.0272	BENTON - WICHITA 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	140.025	GEN334441 1-SABINE UNIT 5
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	139.9662	GEN560687 1-G11-007 0.5750
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49070	139.9226	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	139.8921	GEN511841 1-NORTHEASTERN STATION #4
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	139.8588	GEN511840 1-NORTHEASTERN STATION #3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	139.8275	GEN511839 1-NORTHEASTERN STATION #2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	139.7792	ELK CITY 230KV - SWEETW76 230.00 230KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	139.7761	ELK CITY 230KV (ELCKTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49062	139.7487	HOLCOMB - SETAB 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49007	139.672	DOVER SW - OKEENE 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	139.6073	GEN512689 1-GRDA1 GSU1 22
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48434	139.5894	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	139.554	GEN512688 2-GRDA1 GSU2 22
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	139.3788	GEN515042 1-SEMINOLE 3G
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48866	139.3548	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49545	139.221	DBL-HIT-G084
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49545	139.221	DBL-HIT-G084



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	139.0677	GEN515041 1-SEMINOLE 2G
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	139.0664	GEN336170 1-GULF OXY U4
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48952	139.0093	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.952	GEN300006 1-NEW MADRID UNIT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.9468	GEN300007 1-NEW MADRID UNIT 2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.9326	GEN509409 1-WILKES #3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.9295	GEN514910 2-REDBUD GEN
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.9295	GEN514911 2-REDBUD GEN
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.7535	GEN514998 1-MCCLAIN UNIT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.7535	GEN514999 1-MCCLAIN UNIT 2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.6989	GEN542955 1-LACYGNE UNIT #1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48900	138.6956	SPP-MKEC-08
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.6831	GEN334070 1-LEWIS CREEK 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48854	138.6762	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.6743	GEN514900 1-REDBUD2S
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.6742	GEN514899 1-REDBUD1S
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48952	138.6681	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48997	138.6508	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48876	138.6144	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.5563	GEN542956 2-LACYGNE UNIT #2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.52	GEN511843 1-RIVERSIDE STATION #2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49101	138.4883	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48860	138.475	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48877	138.4725	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	138.466	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48864	138.4648	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48878	138.4623	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48964	138.4574	OGE3TERM1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48654	138.4364	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48755	138.434	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.4304	GEN542962 2-IATAN UNIT #2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48877	138.4294	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48951	138.4205	DOVER SW - HENESSEY 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48864	138.4087	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48951	138.3323	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48951	138.314	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48900	138.2959	SPP-WERE-34
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48900	138.2575	SPP-MKEC-05
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.2507	GEN505432 1-SIKESTON
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48967	138.1988	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48887	138.1836	AXTELL - PAULINE 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.1449	GEN318007 1-SMOROW161 161.00
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	138.1333	STLN-DEMARC6230.00 - SWEETW6 230.00 230KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	138.1333	SPP-SWPS-02
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	138.1333	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48969	138.1232	BENTON - ROSE HILL 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.1161	GEN560639 1-ASGI-10-07 0.6900
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.1158	GEN560636 1-ASGI-10-06 0.6900
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.1156	GEN334030 1-FRONTIER UNIT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.1151	GEN542957 1-IATAN UNIT #1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.1142	GEN501823 1-TECHE UNIT 3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48854	138.096	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48900	138.0907	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0849	GEN337428 1-PERYVILLE UNIT #1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0849	GEN337430 1-PERYVILLE UNIT #3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48949	138.0816	G05-13T 345.00 - NEOSHO 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0742	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0742	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48899	138.0723	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0622	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0594	GEN515266 1-AES 1G
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0594	GEN515267 1-AES 2G
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0582	GEN337125 6-LS POWER BATESVILLE
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0528	GEN337429 1-PERYVILLE UNIT #2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0528	GEN337432 1-PERYVILLE UNIT #5
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0486	GEN514905 1-REBUD3S
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0414	GEN337006 1-DUKE MCADAMS G1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0414	GEN337007 1-DUKE MCADAMS G2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48880	138.0364	MOORE - PAULINE 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0361	GEN542951 5-HAWTHORN UNIT #5
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0162	GEN337008 1-DUKE MCADAMS S1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	138.0126	GEN335203 1-NELSON UNIT 3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48997	137.9989	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48949	137.9987	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.9835	GEN334031 1-FRONTIER UNIT 2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.9802	GEN336167 1-GULF OXY U1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.9802	GEN336168 1-GULF OXY U2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.9802	GEN336169 1-GULF OXY U3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.9774	GEN520811 1-ANADRK4
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.975	GEN501911 1-ACADIA UNIT CT1A
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.9719	GEN335076 1-DYNEGY UNIT2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48848	137.9689	WRTOD400
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.9546	GEN337421 1-OUCHITA CTG1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.9546	GEN337423 1-OUCHITA CTG2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.9546	GEN337425 1-OUCHITA CTG3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.9511	GEN547649 1-ASBURY UNIT #1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49101	137.9429	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.9402	GEN334392 1-EXXON MOBIL IPP 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.9251	GEN335075 1-DYNEGY#1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.8581	GEN338500 1-MCCLELLAN UNIT #1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.8578	GEN515000 1-MCCLAIN UNIT 3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	137.8366	SPP-SWPS-02A
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.8337	GEN300003 1-THOMAS HILL UNIT 3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.8314	GEN549890 1-SOUTHWEST 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.8195	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.8195	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.8147	GEN506752 1-LEBROCK GAS 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48816	137.8029	STEGALL - STEGALL TRANSFORMER 230KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48816	137.8022	TRF-STEGALL
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48848	137.774	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48869	137.7703	KNOBHILL - SALINE 69KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48851	137.7691	PUTNAM - TALOGA 69KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48949	137.7685	LATHAM57 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48869	137.7392	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.739	GEN337954 1-LYNCH UNIT #3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48836	137.7371	CIMARRON - EL RENO 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48654	137.7367	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48909	137.7335	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48851	137.7328	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48851	137.7228	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48851	137.7208	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.7176	GEN511836 1-NORTHEASTERN STATION #1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.7112	GEN541151 3-SIBLEY GENERATING UNIT #3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.7018	GEN547656 1-STATE LINE UNIT #2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48848	137.6949	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.6894	GEN300031 1-CHOUTEAU CTG 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.6894	GEN300032 1-CHOUTEAU CTG 2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48418	137.688	CIMARRON - MINCO 7 345.00 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.6867	GEN338513 1-BAILEY UNIT #1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48851	137.6797	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48820	137.677	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.6693	GEN335201 1-NELSON UNIT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48829	137.6674	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.6514	GEN515443 1-MNCOWND1 34.500
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.6514	GEN549893 2-SOUTHWEST 2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48869	137.647	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48869	137.6344	GOLTRY - IMO 69KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.6322	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.6241	GEN338510 1-151KNWRI
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.617	GEN511953 G-COGENTRIX GAS # 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.6163	GEN511954 S-COGENTRIX STEAM # 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.6075	GEN501910 1-ACADIA UNIT ST1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.6065	GEN520812 1-ANADRK5
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.6064	GEN520813 1-ANADRK6
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.5893	GEN335202 1-NELSON UNIT 2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.5847	GEN511938 1-OEC STEAM # 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48848	137.5761	OKEENE - WATONGA SW 69KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.5728	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48844	137.5674	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48793	137.5639	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.5616	GEN503900 1-FITZHUGH CT1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.549	GEN337422 1-OUCHITA STG1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.549	GEN337424 1-OUCHITA STG2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.549	GEN337426 1-OUCHITA STG3
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.5476	GEN511851 1-COMANCHE #1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48844	137.5473	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.542	GEN337124 5-LS POWER BATESVILLE
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.533	GEN300016 1-1G1GPDEL 18.000
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.533	GEN300017 1-1G2GPDEL 18.000
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.5241	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.5213	GEN335545 1-DOW AEP UNITS
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.515	GEN506749 1-EASTMAN GENERATION A
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48806	137.4901	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.4831	GEN335137 C4-PPG
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.4668	GEN521129 1-BLUCANS 4 138.00
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48951	137.4522	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.4469	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48814	137.4432	MARSHALL - WOODRING 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48814	137.433	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.4235	GEN599891 1-OKLAUN
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48879	137.3704	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	137.1944	GEN560603 1-G07-06 0.6000
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.9556	DIVCAPS4 138.00 138KV SWITCHED SHUNT
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.9556	DIVCAPS4 138.00 - DIVISION AVE 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.9506	MEMCAPS4 138.00 138KV SWITCHED SHUNT
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.9506	MEMCAPS4 138.00 - MEMORIAL 138KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.9106	BASE CASE
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48418	136.7343	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48801	136.6962	ARCADIA (ARCADIA3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48801	136.6841	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47620	136.6393	NORTHWEST - SPRING CREEK 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47620	136.633	SOONER - SPRING CREEK 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48733	136.5199	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48849	136.4631	WWRDEHV7 345.00 (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48849	136.4559	WWRDEHV7 345.00 (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48809	136.4548	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48797	136.4471	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48798	136.4164	OGE3TERM7
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48731	136.4155	CLEVELAND - SOONER 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48654	136.391	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48797	136.3807	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48797	136.3792	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48797	136.3703	SPP-WERE-41B
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48806	136.3689	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48806	136.3629	AMRN_OUT55
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48765	136.3623	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48765	136.3618	AI12
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48765	136.358	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48762	136.3513	DELAWARE - NEOSHO 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.3474	GEN562014 1-G11-023 0.6900
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48627	136.3292	G08-127T 345.00 - SOONER 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.3269	GEN560586 1-G06-44-3 0.6000
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.3258	GEN560256 1-G10-14-1 0.6900
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.3179	GEN560371 1-G07-46 0.6900
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48771	136.314	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.3082	GEN560257 1-G10-14-2 0.6900
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.303	GEN560173 1-G08-17 0.5750
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.2985	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48798	136.2923	SPP-WERE-07B
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.2825	GEN560105 1-G08-22 0.6900
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48624	136.2653	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48695	136.2597	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48624	136.2563	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48806	136.2529	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.191	GEN560353 1-G10-52 0.6900
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.1718	GEN562042 1-G11-014 0.6900
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48807	136.1405	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.1396	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.1261	GEN523103 1-NOBLE_WND 3115.00
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48599	136.1213	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.1071	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48706	136.0831	NORTHWEST (NORTW5T3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48771	136.0715	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.0604	GEN560359 1-G08-51 0.6900
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.0541	GEN520997 1-MORLND2
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.0264	GEN560166 1-G07-48 0.6900
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	136.0068	GEN560570 1-G06-39 0.6900
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48627	135.9813	G08-127T 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.9606	GEN523461 1-BLACKHAWK GEN #1
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.9606	GEN523462 1-BLACKHAWK GEN #2
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.9589	GEN560279 1-G08-18 0.6900
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.938	GEN562017 1-G11-022 0.6900
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.8798	GEN560121 1-G08-47 0.5750
FDNS	01ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.8647	GEN562020 1-G11-021 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48697	135.8532	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.8255	GEN527165 1-Mustang Gen #5
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.8244	GEN560598 1-G06-49 0.6000
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.8242	GEN527162 1-MUSTANG GEN #2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.8242	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.8241	GEN527161 1-MUSTANG GEN #1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.7668	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48549	135.7208	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48765	135.7159	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.6349	GEN560190 1-G10-08 0.6900
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.6204	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49234	135.5628	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.5464	GEN560155 1-G10-11 0.6900
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49234	135.5094	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.4037	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.4037	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47687	135.3033	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48491	135.1865	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.1832	GEN515389 1-TLGAWND1 34.500
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	135.0562	GEN520922 1-SLEEPING 138.00
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	134.9893	GEN515790 1-FPLWND2
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	134.8267	GEN515397 1-OUSPR1 34.500
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	134.7865	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48340	134.7534	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	134.1759	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	134.1452	GEN515364 1-CENT 11 0.6000
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	134.1256	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	134.1181	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	134.1177	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	133.6046	GEN515393 1-OGEWND2G
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	133.2455	GEN531447 1-HOLCOMB GENERATOR
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	133.1732	GEN560180 1-G07-51 0.6000
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	133.0425	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46759	132.998	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	132.5575	GEN560221 1-G07-62-1 0.6900
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	132.5575	GEN560222 1-G07-62-2 0.6900
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	132.5575	GEN560223 1-G07-62-3 0.6900
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	132.5575	GEN560224 1-G07-62-4 0.6900
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	131.6145	GEN560429 1-G08-29 0.6400
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	131.3771	GEN560225 1-G10-43 18.000
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	130.4681	GEN562023 1-G11-020 0.6900
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	130.4681	GEN562026 1-G11-019 0.6900
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	127.56	GEN560648 1-G07-21 0.5750
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	127.1085	GEN560115 1-G08-44 0.6900
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	123.153	GEN560175 1-G07-44 0.5750
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	122.9438	GEN562010 1-G11-024 0.6900
FDNS	01ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48803	122.794	GEN560282 1-G08-19 0.6000
FDNS	01ALL	2	11G	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.41185	175.8627	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.41185	175.8591	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.45682	156.053	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.45682	156.0502	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.51551	141.2474	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.51551	141.2474	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	01ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.51551	141.2377	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.51551	141.2377	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.31346	115.4615	DBL-WOOD-MED

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.31346	115.452	DBL-WOOD-MED
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30455	115.4073	DBL-MEDLO-WI
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30454	115.4001	DBL-MEDLO-WI
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.36548	110.8587	MATTHEWSON 345.00 - WOODRING 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.36548	110.8583	MATTHEWSON 345.00 - WOODRING 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	106.5445	GEN336821 1-GRAND GULF UNIT
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	106.5433	GEN336821 1-GRAND GULF UNIT
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.32411	106.3216	SOONER - WOODRING 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.32411	106.3212	SOONER - WOODRING 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29286	106.1164	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29286	106.1161	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	105.9009	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	105.8998	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.32623	105.7096	DBL-MEDLO-WI
FDNS	01ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.32623	105.7096	DBL-MEDLO-WI
FDNS	01ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.32623	105.7001	DBL-MEDLO-WI
FDNS	01ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.32623	105.7001	DBL-MEDLO-WI
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	105.3175	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	105.3164	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30774	105.1496	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30774	105.1491	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	104.9642	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	104.9632	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29677	104.9018	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29676	104.8998	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30090	104.3001	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30090	104.3001	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30090	104.3	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30090	104.3	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	104.08	GEN501801 1-DOLET HILLS UNIT1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	104.079	GEN501801 1-DOLET HILLS UNIT1
FDNS	01ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.33661	103.9618	DBL-WOOD-MED
FDNS	01ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.33661	103.9618	DBL-WOOD-MED
FDNS	01ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.33661	103.9491	DBL-WOOD-MED
FDNS	01ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.33661	103.9491	DBL-WOOD-MED
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.9214	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.9202	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.9184	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.9174	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.8449	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.8438	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.6852	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.6843	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29781	103.4771	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29781	103.4771	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29781	103.4769	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29781	103.4769	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.4043	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.4033	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.3099	GEN501813 1-RODEMACHER UNIT 3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.309	GEN509403 1-PIRKEY GENERATION
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.309	GEN501813 1-RODEMACHER UNIT 3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.3081	GEN509403 1-PIRKEY GENERATION
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.2653	GEN337041 1-GERALD ANDRUS
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.2643	GEN337041 1-GERALD ANDRUS
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.2307	GEN515223 1-MUSKOGEE 4G

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.2298	GEN515223 1-MUSKOGEE 4G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.1833	GEN515225 1-MUSKOGEE 5G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	103.1825	GEN515225 1-MUSKOGEE 5G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30025	103.1057	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30025	103.1054	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29958	102.9498	CLEVELAND - SOONER 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29958	102.9469	CLEVELAND - SOONER 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.9259	GEN336831 1-BAXTER WILSON SES
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.925	GEN336831 1-BAXTER WILSON SES
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.9166	GEN520947 1-HUGO1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.9157	GEN520947 1-HUGO1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.9035	GEN501812 1-RODEMACHER UNIT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.9026	GEN501812 1-RODEMACHER UNIT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.891	GEN515040 1-SEMINOLE 1G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.8898	GEN515040 1-SEMINOLE 1G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.8604	GEN335206 1-NELSON UNIT 6
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.8595	GEN335206 1-NELSON UNIT 6
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.7707	GEN514910 2-REDBUD GEN
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.7707	GEN514911 2-REDBUD GEN
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.7699	GEN514910 2-REDBUD GEN
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.7699	GEN514911 2-REDBUD GEN
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.6965	GEN334440 1-SABINE UNIT 4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.6956	GEN334440 1-SABINE UNIT 4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.6891	GEN509406 1-WELSH #3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.689	GEN509405 1-WELSH #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.6889	GEN509404 1-WELSH #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.6882	GEN509406 1-WELSH #3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.6881	GEN509405 1-WELSH #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.688	GEN509404 1-WELSH #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29878	102.5984	BENTON - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29878	102.5979	BENTON - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.5812	GEN335204 1-NELSON UNIT 4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.5803	GEN335204 1-NELSON UNIT 4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29738	102.5079	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29738	102.5076	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29676	102.4633	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29677	102.4621	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.4485	GEN509394 1-FLINT CREEK
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.4476	GEN509394 1-FLINT CREEK
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.4403	GEN514900 1-REDBUD2S
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.4402	GEN514899 1-REDBUD1S
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.4395	GEN514900 1-REDBUD2S
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.4394	GEN514899 1-REDBUD1S
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29286	102.392	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29286	102.3914	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.3441	GEN334441 1-SABINE UNIT 5
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.3432	GEN334441 1-SABINE UNIT 5
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.3419	GEN514806 1-SOONER UNIT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.3409	GEN514806 1-SOONER UNIT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.2966	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.2957	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.2559	GEN511841 1-NORTHEASTERN STATION #4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.255	GEN511841 1-NORTHEASTERN STATION #4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.2328	GEN511840 1-NORTHEASTERN STATION #3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.232	GEN511840 1-NORTHEASTERN STATION #3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29676	102.2191	ROMAN NOSE - SOUTHARD 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29677	102.2178	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.2038	GEN515042 1-SEMINOLE 3G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.2029	GEN515042 1-SEMINOLE 3G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.1918	GEN511839 1-NORTHEASTERN STATION #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.1909	GEN511839 1-NORTHEASTERN STATION #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29738	102.1894	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29738	102.1891	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29767	102.1641	MINGO - RED WILLOW 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29767	102.1639	MINGO - RED WILLOW 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29630	102.1563	CIMARRON - HAYMAKER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29630	102.1556	CIMARRON - HAYMAKER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29731	102.1202	MINGO - SETAB 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29731	102.1199	MINGO - SETAB 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.0857	GEN512689 1-GRDA1 GSU1 22
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.0849	GEN512689 1-GRDA1 GSU1 22
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29788	102.062	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29788	102.0618	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29676	102.0497	CIMARRON - CZECH HALL 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29676	102.0492	CIMARRON - CZECH HALL 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.0328	GEN512688 2-GRDA1 GSU2 22
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29630	102.0321	DIVISION AVE - HAYMAKER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	102.0319	GEN512688 2-GRDA1 GSU2 22
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29630	102.0315	DIVISION AVE - HAYMAKER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29706	101.9777	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29706	101.9771	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.9724	GEN514805 1-SOONER UNIT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29706	101.9713	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.9711	GEN514805 1-SOONER UNIT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29706	101.9688	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.9457	GEN515041 1-SEMINOLE 2G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.9449	GEN515041 1-SEMINOLE 2G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29676	101.9365	CZECH HALL - XEROX 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29676	101.9359	CZECH HALL - XEROX 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29676	101.9263	MORGAN - XEROX 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29676	101.9256	MORGAN - XEROX 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29639	101.9147	MARSHALL - WOODRING 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29639	101.9141	MARSHALL - WOODRING 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29772	101.8888	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29772	101.8882	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29602	101.8871	OGE3TERM2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29602	101.8866	OGE3TERM2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29639	101.8857	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29639	101.8851	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29590	101.8759	MORRISON - STILLWATER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29590	101.8753	MORRISON - STILLWATER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29286	101.8673	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29676	101.8668	MORGAN - MUSTANG 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29286	101.8666	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29676	101.8661	MORGAN - MUSTANG 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29747	101.8512	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29747	101.8508	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30583	101.83	DBL-G0847-WO
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30583	101.8291	DBL-G0847-WO
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29689	101.8187	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29689	101.8182	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30147	101.8074	SUMNERCO 345.00 - WICHITA 345KV CKT 1



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30147	101.807	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29689	101.7019	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29689	101.7014	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29772	101.6833	G05-13T 345.00 - LATHAMS7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29772	101.6828	G05-13T 345.00 - LATHAMS7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.6477	GEN509409 1-WILKES #3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.6469	GEN509409 1-WILKES #3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.6417	GEN336170 1-GULF OXY U4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.6409	GEN336170 1-GULF OXY U4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.6319	GEN514998 1-MCCLAIN UNIT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.6319	GEN514999 1-MCCLAIN UNIT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.6311	GEN514998 1-MCCLAIN UNIT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.6311	GEN514999 1-MCCLAIN UNIT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.6195	GEN514905 1-REDBUD3S
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.6188	GEN514905 1-REDBUD3S
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29980	101.6123	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29980	101.6121	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29804	101.5795	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29804	101.5788	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29654	101.5709	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29654	101.5708	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.4765	GEN511843 1-RIVERSIDE STATION #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.4757	GEN511843 1-RIVERSIDE STATION #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.4551	GEN514912 2-REDBUD GEN
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.4544	GEN514912 2-REDBUD GEN
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.4488	GEN300006 1-NEW MADRID UNIT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.448	GEN300006 1-NEW MADRID UNIT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29458	101.444	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29458	101.4439	ELK CITY 230KV - SWEETW76 230.00 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29458	101.4437	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29458	101.4436	ELK CITY 230KV - SWEETW76 230.00 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.4418	GEN300007 1-NEW MADRID UNIT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.441	GEN300007 1-NEW MADRID UNIT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29569	101.4334	MCELROY - STILLWATER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29569	101.4329	MCELROY - STILLWATER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.4147	GEN334070 1-LEWIS CREEK 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29740	101.4144	CIMARRON (CIMARON1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.4139	GEN334070 1-LEWIS CREEK 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29740	101.4138	CIMARRON (CIMARON1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29734	101.3747	CIMARRON (CIMARON2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29734	101.3742	CIMARRON (CIMARON2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29691	101.3526	HOLCOMB - SETAB 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29691	101.3522	HOLCOMB - SETAB 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29810	101.3399	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29810	101.3397	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29543	101.3239	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29543	101.3235	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29612	101.3088	WRTOD400
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29612	101.3083	WRTOD400
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29569	101.2861	KINZE - MCELROY 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29569	101.2854	KINZE - MCELROY 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29612	101.2799	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29611	101.2798	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29612	101.2738	IMO TAP - MEN TAP 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29611	101.2737	IMO TAP - MEN TAP 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29772	101.2374	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29772	101.2369	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29604	101.2337	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29604	101.2334	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29604	101.2154	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29604	101.2152	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29603	101.1329	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29603	101.1328	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29603	101.1315	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29603	101.1314	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29631	101.1144	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29631	101.1143	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29759	101.0995	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29759	101.0991	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29605	101.0455	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29605	101.0451	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.0237	GEN334030 1-FRONTIER UNIT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.0229	GEN334030 1-FRONTIER UNIT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.0182	GEN515266 1-AES 1G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.0182	GEN515267 1-AES 2G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.0174	GEN515266 1-AES 1G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.0174	GEN515267 1-AES 2G
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.0108	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.0108	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.01	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.01	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.0019	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	101.0011	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.993	GEN505432 1-SIKESTON
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9922	GEN505432 1-SIKESTON
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9905	GEN501823 1-TECHE UNIT 3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9895	GEN501823 1-TECHE UNIT 3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9857	GEN318007 1-5MOROW161 161.00
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9849	GEN318007 1-5MOROW161 161.00
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9666	GEN337428 1-PERYVILLE UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9666	GEN337430 1-PERYVILLE UNIT #3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9659	GEN337428 1-PERYVILLE UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9659	GEN337430 1-PERYVILLE UNIT #3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29456	100.9522	SPP-SWPS-03
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29456	100.9516	SPP-SWPS-03
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9441	GEN337429 1-PERYVILLE UNIT #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9441	GEN337432 1-PERYVILLE UNIT #5
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9433	GEN337429 1-PERYVILLE UNIT #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9433	GEN337432 1-PERYVILLE UNIT #5
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9343	GEN334031 1-FRONTIER UNIT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9336	GEN334031 1-FRONTIER UNIT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29631	100.9311	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29631	100.931	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29662	100.9304	BENTON - ROSE HILL 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29662	100.9298	BENTON - ROSE HILL 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9208	GEN335203 1-NELSON UNIT 3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.92	GEN335203 1-NELSON UNIT 3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9185	GEN337125 6-LS POWER BATESVILLE
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9177	GEN515000 1-MCCLAIN UNIT 3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9177	GEN337125 6-LS POWER BATESVILLE
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9169	GEN515000 1-MCCLAIN UNIT 3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9093	GEN337006 1-DUKE MCADAMS G1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9093	GEN337007 1-DUKE MCADAMS G2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9085	GEN337006 1-DUKE MCADAMS G1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.9085	GEN337007 1-DUKE MCADAMS G2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29549	100.9033	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29549	100.9028	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8931	GEN335076 1-DYNEGY UNIT2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8926	GEN337008 1-DUKE MCADAMS S1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8923	GEN335076 1-DYNEGY UNIT2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8919	GEN337008 1-DUKE MCADAMS S1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29563	100.8888	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29563	100.8884	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8881	GEN501911 1-ACADIA UNIT CT1A
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8874	GEN501911 1-ACADIA UNIT CT1A
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8857	GEN336167 1-GULF OXY U1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8857	GEN336168 1-GULF OXY U2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8857	GEN336169 1-GULF OXY U3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8849	GEN336167 1-GULF OXY U1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8849	GEN336168 1-GULF OXY U2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8849	GEN336169 1-GULF OXY U3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8755	GEN334392 1-EXXON MOBIL IPP 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8747	GEN334392 1-EXXON MOBIL IPP 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8728	GEN337421 1-OUCHITA CTG1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8728	GEN337423 1-OUCHITA CTG2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8728	GEN337425 1-OUCHITA CTG3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29596	100.8722	SPP-MKEC-08
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.872	GEN337421 1-OUCHITA CTG1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.872	GEN337423 1-OUCHITA CTG2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.872	GEN337425 1-OUCHITA CTG3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29596	100.8718	SPP-MKEC-08
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29573	100.8661	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29573	100.8656	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8599	GEN335075 1-DYNEGY#1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8592	GEN335075 1-DYNEGY#1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30147	100.8439	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30147	100.843	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29944	100.8422	DBL-HIT-G084
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29944	100.8422	DBL-HIT-G084
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29944	100.8418	DBL-HIT-G084
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29734	100.8412	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29500	100.841	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29734	100.8408	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29500	100.8405	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29573	100.8378	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29573	100.8373	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29614	100.8309	AXTELL - PAULINE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29614	100.8305	AXTELL - PAULINE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8304	GEN506752 1-LEBROCK GAS 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8297	GEN506752 1-LEBROCK GAS 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29458	100.8211	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29458	100.8204	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.813	GEN338500 1-MCCLELLAN UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.8122	GEN338500 1-MCCLELLAN UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7965	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7965	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7957	GEN511837 1-NORTHEASTERN STATION # 1-1A

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7957	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7654	GEN547649 1-ASBURY UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7646	GEN547649 1-ASBURY UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29596	100.7576	SPP-WERE-34
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29596	100.7572	SPP-WERE-34
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7481	GEN511954 S-COGENTRIX STEAM # 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7474	GEN511954 S-COGENTRIX STEAM # 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29592	100.7464	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7462	GEN511953 G-COGENTRIX GAS # 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29592	100.7459	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7455	GEN511953 G-COGENTRIX GAS # 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29596	100.745	SPP-MKEC-05
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29596	100.7446	SPP-MKEC-05
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29608	100.7367	MOORE - PAULINE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29608	100.7362	MOORE - PAULINE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7266	GEN337954 1-LYNCH UNIT #3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7258	GEN337954 1-LYNCH UNIT #3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7234	GEN511836 1-NORTHEASTERN STATION #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7226	GEN511836 1-NORTHEASTERN STATION #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29576	100.7176	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29576	100.7172	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7156	GEN300031 1-CHOUTEAU CTG 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7156	GEN300032 1-CHOUTEAU CTG 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7148	GEN300031 1-CHOUTEAU CTG 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7148	GEN300032 1-CHOUTEAU CTG 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7139	GEN549890 1-SOUTHWEST 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.7131	GEN549890 1-SOUTHWEST 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29470	100.7096	OGE3TERM47
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29470	100.7089	OGE3TERM47
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29645	100.7049	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29645	100.7044	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29633	100.6968	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29633	100.6964	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29737	100.6941	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6892	GEN335201 1-NELSON UNIT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6892	GEN511938 1-OEC STEAM # 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6884	GEN335201 1-NELSON UNIT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29737	100.6883	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6881	GEN560636 1-ASGI-10-06 0.6900
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6879	GEN511938 1-OEC STEAM # 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6873	GEN560636 1-ASGI-10-06 0.6900
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29649	100.6855	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29649	100.6851	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6809	GEN560639 1-ASGI-10-07 0.6900
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29596	100.6802	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6801	GEN560639 1-ASGI-10-07 0.6900
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29596	100.6797	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29695	100.6704	PITTSBURG - SUNNYSIDE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29695	100.67	PITTSBURG - SUNNYSIDE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6662	GEN338513 1-BAILEY UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6654	GEN338513 1-BAILEY UNIT #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.662	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6612	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29586	100.6543	DOVER SW - OKEENE 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29586	100.6537	DOVER SW - OKEENE 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6513	GEN338510 1-1S1KNWRI

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6505	GEN547656 1-STATE LINE UNIT #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6505	GEN338510 1-1S1KNWRI
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6497	GEN547656 1-STATE LINE UNIT #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29643	100.649	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29458	100.645	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29458	100.645	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29458	100.645	SPP-SWPS-02
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29643	100.6448	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29458	100.6444	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29458	100.6444	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29458	100.6444	SPP-SWPS-02
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6409	GEN503900 1-FITZHUGH CT1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6402	GEN503900 1-FITZHUGH CT1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29573	100.6374	OGE3TERM4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29573	100.6368	OGE3TERM4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6368	GEN501910 1-ACADIA UNIT ST1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6361	GEN501910 1-ACADIA UNIT ST1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.635	GEN520811 1-ANADRK4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29590	100.6345	FAIRFAX TAP - SHIDLER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29590	100.6339	FAIRFAX TAP - SHIDLER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29576	100.6327	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29576	100.6323	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6318	GEN520811 1-ANADRK4
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6308	GEN335202 1-NELSON UNIT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6301	GEN335202 1-NELSON UNIT 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29566	100.6239	TULSA NORTH - WEKIWA 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29566	100.6234	TULSA NORTH - WEKIWA 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29563	100.6232	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29563	100.6227	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29590	100.6178	SHIDLER - WEST PAWHUSKA 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29590	100.6172	SHIDLER - WEST PAWHUSKA 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29590	100.6149	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29590	100.6142	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29565	100.6123	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29565	100.6119	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6066	GEN549893 2-SOUTHWEST 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6059	GEN549893 2-SOUTHWEST 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6053	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6045	GEN506749 1-EASTMAN GENERATION A
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.604	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.6038	GEN506749 1-EASTMAN GENERATION A
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5969	GEN337422 1-OUCHITA STG1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5969	GEN337424 1-OUCHITA STG2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5969	GEN337426 1-OUCHITA STG3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5961	GEN337422 1-OUCHITA STG1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5961	GEN337424 1-OUCHITA STG2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5961	GEN337426 1-OUCHITA STG3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29590	100.5886	DOMES - PAWHUSKA TAP 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29590	100.5879	DOMES - PAWHUSKA TAP 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29556	100.5806	BARNES 4 138.00 - DRAPER LAKE 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29556	100.5804	OGE3TERM23
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29557	100.58	BARNES 4 138.00 - DRAPER LAKE 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29557	100.5798	OGE3TERM23
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29590	100.5794	DOMES - MOUND ROAD 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29596	100.5789	MORGAN - NEOSHO 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29590	100.5788	DOMES - MOUND ROAD 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5784	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29596	100.5783	MORGAN - NEOSHO 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5777	GEN300003 1-THOMAS HILL UNIT 3
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5776	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5764	GEN300003 1-THOMAS HILL UNIT 3
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5756	GEN335545 1-DOW AEP UNITS
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5749	GEN335545 1-DOW AEP UNITS
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29734	100.5746	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29734	100.5741	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5685	GEN337124 5-LS POWER BATESVILLE
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5678	GEN337124 5-LS POWER BATESVILLE
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29693	100.5654	OTTER - WOODRING 138KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29581	100.5649	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29581	100.5648	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29693	100.5645	OTTER - WOODRING 138KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5566	GEN335137 C4-PPG
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5558	GEN335137 C4-PPG
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29552	100.5557	ANADARKO - POCASSETT 138KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29552	100.5554	ANADARKO - POCASSETT 138KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.554	GEN520812 1-ANADRK5
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5539	GEN520813 1-ANADRK6
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5534	GEN300016 1-1G1GPDEL 18.000
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5534	GEN300017 1-1G2GPDEL 18.000
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5533	GEN520812 1-ANADRK5
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5532	GEN520813 1-ANADRK6
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5526	GEN300016 1-1G1GPDEL 18.000
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5526	GEN300017 1-1G2GPDEL 18.000
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29583	100.5514	PUTNAM - TALOGA 69KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29583	100.5505	PUTNAM - TALOGA 69KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29418	100.5473	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29418	100.5468	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5433	DOVER SW (DOVER) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5429	DOVER SW (DOVER) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29564	100.5413	CIMARRON - EL RENO 138KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29564	100.5407	CIMARRON - EL RENO 138KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29568	100.5382	BROOKLINE - MORGAN 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29583	100.5377	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29583	100.5375	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29568	100.5375	BROOKLINE - MORGAN 345KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29583	100.5368	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29583	100.5366	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29583	100.5365	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29583	100.5356	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29693	100.5292	OTTER - WARREN VALLEY 138KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29581	100.5287	OVERTON-TRF
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29552	100.5287	POCASSETT - TUTTLE 138KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29552	100.5284	POCASSETT - TUTTLE 138KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29693	100.5282	OTTER - WARREN VALLEY 138KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29581	100.5281	OVERTON-TRF
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29532	100.5277	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29532	100.5273	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5266	GEN334467 1-DUPONT UNIT#1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5258	GEN334467 1-DUPONT UNIT#1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29576	100.5223	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5222	GEN500915 3-WESTERN KRAFT
FDNS	01ALL		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29576	100.5219	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5215	GEN500915 3-WESTERN KRAFT
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29693	100.5214	COW CREEK - WARREN VALLEY 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29693	100.5204	COW CREEK - WARREN VALLEY 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29536	100.5168	WESTMOORE - WILROGR4 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29583	100.5162	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29536	100.5161	WESTMOORE - WILROGR4 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29578	100.5154	OKEENE - WATONGA SW 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29583	100.5153	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29578	100.5139	OKEENE - WATONGA SW 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29555	100.513	MORRISON - SOONER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29555	100.5126	MORRISON - SOONER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5084	GEN511851 1-COMANCHE #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5079	GEN334335 1-TOLEDO BEND
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5076	GEN511851 1-COMANCHE #1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5072	GEN334335 1-TOLEDO BEND
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5034	GEN334232 1-PELCNRD U1 13.800
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5034	GEN334233 1-PELCNRD U2 13.800
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29544	100.5031	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5028	CLINTON - MONTROSE 161KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5027	GEN334232 1-PELCNRD U1 13.800
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5027	GEN334233 1-PELCNRD U2 13.800
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29545	100.5026	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.5021	CLINTON - MONTROSE 161KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4956	GEN335546 3-DOW COGEN
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4949	GEN335546 3-DOW COGEN
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29570	100.4916	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29569	100.4916	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29569	100.4912	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29570	100.4911	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29573	100.4893	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.489	GEN334298 1-CYPR U1 13.800
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.489	GEN334299 1-CYPR U2 13.800
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4882	GEN334298 1-CYPR U1 13.800
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4882	GEN334299 1-CYPR U2 13.800
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29573	100.4871	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29575	100.4861	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29575	100.4856	MCADAMS - WOLF CREEK 500KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4795	GEN509408 1-WILKES #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4792	GEN509408 1-WILKES #2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29583	100.4756	NEOSHO (NEOSHO2X) 345/161/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29532	100.4754	DISCVRY - OAKCREEK 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29617	100.4751	RENO COUNTY - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29583	100.4749	NEOSHO (NEOSHO2X) 345/161/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29566	100.4749	DOVER SW - DOVER TAP 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29532	100.4749	DISCVRY - OAKCREEK 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29566	100.4747	DOVER TAP - TURKEY CREEK 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29617	100.4745	RENO COUNTY - WICHITA 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29566	100.4743	DOVER SW - DOVER TAP 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29566	100.4741	DOVER TAP - TURKEY CREEK 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4734	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4734	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4727	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4727	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29582	100.4718	CALUMET - WATONGA SW 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29563	100.4716	OGE3TERM3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29582	100.4713	CALUMET - WATONGA SW 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.468	GEN521129 1-BLUCANS 4 138.00
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4672	GEN521129 1-BLUCANS 4 138.00
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29536	100.4663	PENNSYLVANIA - WESTMOORE 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29536	100.4657	PENNSYLVANIA - WESTMOORE 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29562	100.4643	OGE3TERM3
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29570	100.4627	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29570	100.4622	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4604	GEN335644 1-EXXON UNITS
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4596	GEN335644 1-EXXON UNITS
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29552	100.4588	SUNSHINE CANYON - TUTTLE 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29552	100.4584	SUNSHINE CANYON - TUTTLE 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29622	100.4547	CIMARRON - SARA 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29622	100.4541	CIMARRON - SARA 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29568	100.4518	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29568	100.4512	WICHITA (WICHT12X) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29583	100.4464	CORDELL - GOTEBO 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29532	100.4432	DISCVRY - FOSTER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29532	100.4426	DISCVRY - FOSTER 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29479	100.4417	COTTONWOOD CREEK - LBRTYLK4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29479	100.4412	COTTONWOOD CREEK - LBRTYLK4 138.00 138KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4342	GEN506753 1-LEBROCK GAS 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.4335	GEN506753 1-LEBROCK GAS 2
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29566	100.4277	BOWMAN - TURKEY CREEK 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29577	100.4276	CLEVELAND (CLVAUTO1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29566	100.4271	BOWMAN - TURKEY CREEK 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29577	100.427	CLEVELAND (CLVAUTO1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29572	100.4193	EL RENO - SERVICE PL EL RENO 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29572	100.4188	EL RENO - SERVICE PL EL RENO 69KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29562	100.4172	SPP-WERE-30
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29562	100.4166	SPP-WERE-30
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29514	100.4004	PECAN CREEK - RIVERSIDE STATION 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29514	100.3998	PECAN CREEK - RIVERSIDE STATION 345KV CKT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.3547	GEN560603 1-G07-06 0.6000
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.3539	GEN560603 1-G07-06 0.6000
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.1352	BASE CASE
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.1343	BASE CASE
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.1262	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.1247	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01ALL	3	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.1334	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL	3	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 2	1195	0.29561	100.1334	CIMARRON - MATTHEWSON 345.00 345KV CKT 2
FDNS	01ALL	3	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.1343	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01ALL	3	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.29561	100.1343	CIMARRON - MATTHEWSON 345.00 345KV CKT 2
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48695	120.9333	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48701	120.1271	LACYGNE - STILWELL 345KV CKT 1
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48707	120.1594	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48666	122.0066	LACYGNE - NEOSHO 345KV CKT 1
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48766	121.1689	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48758	121.4778	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.52099	154.6537	DBL-MEDLO-WI
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.54129	150.7397	DBL-WOOD-MED
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48713	131.2559	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.50283	128.8203	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.50283	128.8203	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	128.5115	GEN336821 1-GRAND GULF UNIT
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49532	127.9181	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49532	127.9181	MED-LDG5 345.00 - WICHITA 345KV CKT 2



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	127.4566	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49091	126.9602	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	126.9418	GEN335831 1-RIVERBEND UNIT#1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	126.3164	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	125.5235	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	125.3191	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	125.2484	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49625	125.2348	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	125.2207	GEN501801 1-DOLET HILLS UNIT1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	125.1774	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48713	125.1651	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	124.6269	GEN514806 1-SOONER UNIT 2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	124.6255	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	124.5066	GEN337041 1-GERALD ANDRUS
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	124.4762	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	124.4647	GEN515226 1-MUSKOGEE 6G
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	124.4162	GEN509403 1-PIRKEY GENERATION
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	124.4107	GEN501813 1-RODEMACHER UNIT 3
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48713	124.3717	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	124.2666	GEN514805 1-SOONER UNIT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49091	124.0932	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49062	124.0874	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	124.0569	GEN336831 1-BAXTER WILSON SES
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.9704	GEN515223 1-MUSKOGEE 4G
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.9264	GEN501812 1-RODEMACHER UNIT 2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.9184	GEN515225 1-MUSKOGEE 5G
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.883	GEN335206 1-NELSON UNIT 6
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49050	123.8469	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.8402	GEN520947 1-HUGO1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49087	123.8297	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49087	123.8054	IMO TAP - MEN TAP 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49019	123.7434	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49091	123.7407	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.6766	GEN334440 1-SABINE UNIT 4
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49019	123.6653	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.6591	GEN509406 1-WELSH #3
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.659	GEN509404 1-WELSH #1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.659	GEN509405 1-WELSH #2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49062	123.6007	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.5565	GEN335204 1-NELSON UNIT 4
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.5503	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.4537	GEN509394 1-FLINT CREEK
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49111	123.4377	MINGO - RED WILLOW 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49056	123.3838	MINGO - SETAB 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.2856	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.2572	GEN334441 1-SABINE UNIT 5
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.2327	GEN511841 1-NORTHEASTERN STATION #4
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.2041	GEN511840 1-NORTHEASTERN STATION #3
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.179	GEN511839 1-NORTHEASTERN STATION #2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48942	123.0652	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48331	123.0443	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	123.0336	GEN512689 1-GRDA1 GSU1 22
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48942	123.0303	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.8927	GEN512688 2-GRDA1 GSU2 22
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49016	122.8744	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49016	122.8548	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49566	122.8325	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.8215	GEN515042 1-SEMINOLE 3G
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49098	122.7851	BENTON - WICHITA 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.7817	GEN560687 1-G11-007 0.5750
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48626	122.7711	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48626	122.7708	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.732	GEN515040 1-SEMINOLE 1G
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49360	122.6581	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.50974	122.6407	DBL-G0847-WO
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.5438	GEN515041 1-SEMINOLE 2G
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48989	122.5375	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48920	122.4901	DOVER SW - OKEENE 138KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.4419	GEN336170 1-GULF OXY U4
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.4243	GEN509409 1-WILKES #3
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.3879	GEN514910 2-REDBUD GEN
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.3879	GEN514911 2-REDBUD GEN
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.3209	GEN300006 1-NEW MADRID UNIT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.3152	GEN300007 1-NEW MADRID UNIT 2
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48981	122.3045	HOLCOMB - SETAB 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48765	122.2952	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.2236	GEN514998 1-MCCLAIN UNIT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.2236	GEN514999 1-MCCLAIN UNIT 2
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48548	122.199	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.1629	GEN514900 1-REDBUD2S
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.1628	GEN514899 1-REDBUD1S
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.1236	GEN334070 1-LEWIS CREEK 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.066	GEN511843 1-RIVERSIDE STATION #2
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	122.006	GEN542955 1-LACYGNE UNIT #1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48814	121.9478	SPP-MKEC-08
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.9005	GEN542956 2-LACYGNE UNIT #2
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48626	121.8795	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48790	121.8588	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48782	121.8303	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48665	121.8219	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48860	121.8194	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48782	121.7826	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48768	121.7822	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.7317	GEN505432 1-SIKESTON
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.722	GEN542962 2-IATAN UNIT #2
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48774	121.6924	CIRCLE - MULLERGREEN 230KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48792	121.6733	MULLERGREEN - SPEARVILLE 230KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48814	121.6631	SPP-WERE-34
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48814	121.6601	SPP-MKEC-05
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.6595	GEN318007 1-5MOROW161 161.00
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.6579	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.6579	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.647	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.6429	GEN334030 1-FRONTIER UNIT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.6381	GEN560639 1-ASGI-10-07 0.6900
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.6379	GEN560636 1-ASGI-10-06 0.6900
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.6307	GEN501823 1-TECHE UNIT 3
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48790	121.625	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.6215	GEN337428 1-PERYVILLE UNIT #1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.6215	GEN337430 1-PERYVILLE UNIT #3
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48863	121.6203	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48626	121.6145	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48626	121.6145	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48626	121.6145	SPP-SWPS-02
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.6083	GEN515266 1-AES 1G
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.6083	GEN515267 1-AES 2G
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48790	121.6062	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.6037	GEN514905 1-REDBUD3S
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48913	121.5937	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5937	GEN337429 1-PERYVILLE UNIT #2
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5937	GEN337432 1-PERYVILLE UNIT #5
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49011	121.5868	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5825	GEN337125 6-LS POWER BATESVILLE
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48814	121.5684	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5682	GEN337006 1-DUKE MCADAMS G1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5682	GEN337007 1-DUKE MCADAMS G2
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48860	121.5662	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5479	GEN335203 1-NELSON UNIT 3
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5473	GEN337008 1-DUKE MCADAMS S1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5358	GEN334031 1-FRONTIER UNIT 2
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5256	GEN336167 1-GULF OXY U1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5256	GEN336168 1-GULF OXY U2
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5256	GEN336169 1-GULF OXY U3
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48760	121.5243	WRTOD400
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48865	121.5229	DOVER SW - HENESSEY 138KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.522	GEN335076 1-DYNEGY UNIT2
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48799	121.5218	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5128	GEN501911 1-ACADIA UNIT CT1A
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5117	GEN542957 1-IATAN UNIT #1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48801	121.5111	AXTELL - PAULINE 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48877	121.5068	OGE3TERM1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5055	GEN337421 1-OUCHITA CTG1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5055	GEN337423 1-OUCHITA CTG2
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5055	GEN337425 1-OUCHITA CTG3
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.5014	GEN547649 1-ASBURY UNIT #1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.4918	GEN514912 2-REBUD GEN
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48863	121.4885	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49455	121.4875	DBL-HIT-6084
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48548	121.4848	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.4842	GEN334392 1-EXXON MOBIL IPP 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.4781	GEN335075 1-DYNEGY#1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.4694	GEN542951 5-HAWTHORN UNIT #5
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48880	121.4577	BENTON - ROSE HILL 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48865	121.445	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.4342	GEN506752 1-LEBROCK GAS 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.4331	GEN515000 1-MCCLAIN UNIT 3
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.4258	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.4258	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.4151	GEN338500 1-MCCLELLAN UNIT #1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48865	121.4107	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48794	121.4099	MOORE - PAULINE 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.4076	GEN549890 1-SOUTHWEST 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48810	121.3779	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48768	121.3696	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.3549	GEN560323 1-G10-40 0.6900
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.3528	GEN300003 1-THOMAS HILL UNIT 3
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.334	GEN511836 1-NORTHEASTERN STATION #1
FDNS	01G11_024		0	11G	G11_024	TO->FROM NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48884	121.3199	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.3179	GEN337954 1-LYNCH UNIT #3
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.3105	GEN640009 1-COOPER NUCLEAR STATION
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2962	GEN547656 1-STATE LINE UNIT #2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48862	121.2839	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2807	GEN300031 1-CHOUTEAU CTG 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2807	GEN300032 1-CHOUTEAU CTG 2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2647	GEN520812 1-ANADRK5
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2647	GEN335201 1-NELSON UNIT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2646	GEN520813 1-ANADRK6
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2643	GEN515443 1-MNCOWND1 34.500
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2623	GEN338513 1-BAILEY UNIT #1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.259	GEN560623 1-ASGI-10-01 0.6000
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2522	GEN511953 G-COGENTRIX GAS # 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2516	GEN511954 S-COGENTRIX STEAM # 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.241	GEN541151 3-SIBLEY GENERATING UNIT #3
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.232	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2304	GEN549893 2-SOUTHWEST 2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48862	121.2245	DEWEY - IODINE 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2224	GEN338510 1-151KNWRI
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48331	121.2219	G11-007T 345.00 - WOODRING 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2203	GEN511938 1-OEC STEAM # 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48863	121.2184	LATHAMS7 345.00 - ROSE HILL 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48710	121.2173	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2052	GEN511851 1-COMANCHE #1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2042	GEN501910 1-ACADIA UNIT ST1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.2004	GEN335202 1-NELSON UNIT 2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48626	121.1965	SPP-SWPS-02A
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1962	GEN503900 1-FITZHUGH CT1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1943	GEN520811 1-ANADRK4
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1926	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1926	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48733	121.1881	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48762	121.1861	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1791	GEN599891 1-OKLAUN
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1752	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49011	121.1747	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1693	GEN645012 2-NEBRASKA CITY 2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48781	121.1683	KNOBHILL - SALINE 69KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1635	GEN337422 1-OUCHITA STG1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1635	GEN337424 1-OUCHITA STG2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1635	GEN337426 1-OUCHITA STG3
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1599	GEN506749 1-EASTMAN GENERATION A
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48763	121.1587	PUTNAM - TALOGA 69KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48742	121.1438	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48781	121.1435	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1421	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1418	GEN300002 1-THOMAS HILL UNIT 2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48762	121.1408	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48749	121.1401	CIMARRON - EL RENO 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1398	GEN337124 5-LS POWER BATESVILLE
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1394	GEN335545 1-DOW AEP UNITS
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48712	121.1381	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48763	121.1372	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48763	121.1367	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48763	121.1338	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1301	GEN300016 1-1G1GPDLE 18.000

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1301	GEN300017 1-1G2GPDEL 18.000
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1248	GEN521129 1-BLUCANS 4 138.00
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	121.123	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48607	121.119	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48724	121.1104	OGE3TERM2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.1097	GEN335137 C4-PPG
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48721	121.1096	MORRISON - STILLWATER 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48763	121.1044	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48913	121.0877	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48712	121.0835	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0833	GEN645011 1-NEBRASKA CITY 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48726	121.0767	MARSHALL - WOODRING 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48761	121.0737	OKEENE - WATONGA SW 69KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48781	121.0728	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48726	121.0705	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.067	GEN334467 1-DUPONT UNIT#1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48710	121.0649	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48799	121.0595	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48729	121.0584	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48781	121.055	GOLTRY - IMO 69KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0542	GEN500915 3-WESTERN KRAFT
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48710	121.0542	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48719	121.052	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48730	121.0491	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48715	121.0468	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48825	121.0442	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48712	121.041	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0391	GEN334335 1-TOLEDO BEND
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0383	GEN335546 3-DOW COGEN
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0378	GEN334232 1-PELCNRD U1 13.800
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0378	GEN334233 1-PELCNRD U2 13.800
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48749	121.0301	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48760	121.0292	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0278	GEN511852 1-COMANCHE #2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48792	121.0258	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0256	GEN511853 1-COMANCHE #3
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48715	121.0253	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0239	GEN334298 1-CYPR U1 13.800
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0239	GEN334299 1-CYPR U2 13.800
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0223	GEN546702 1-NM GEN N1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48747	121.019	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	121.0186	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0106	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0106	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48710	121.0078	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48763	121.0054	CORDELL - GOTEBO 69KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0032	GEN560169 1-G08-13 0.5750
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	121.0001	GEN549899 5-JAMES RIVER 5
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.9999	GEN560645 1-ASGI-10-09 0.6900
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48746	120.9975	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48746	120.9924	CANTON - TALOGA 69KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.9915	GEN335644 1-EXXON UNITS
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.9869	MCELROY - STILLWATER 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48715	120.9866	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48715	120.9853	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48735	120.9827	7OVERTON 345.00 - SIBLEY 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48746	120.9804	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48715	120.9769	SPP-SWPS-T54
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48745	120.974	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48712	120.9628	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48746	120.9606	CANTON - OKETENE 69KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48735	120.9557	OVERTON-TRF
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.9547	GEN506753 1-LEBROCK GAS 2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48746	120.9492	HYDRO - WEATHERFORD 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48725	120.949	BROOKLINE - MORGAN 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.943	GEN560118 1-G08-46 0.6900
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48724	120.9309	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.9283	OGE3TERM10
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47517	120.6831	NORTHWEST - SPRING CREEK 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47517	120.6825	SOONER - SPRING CREEK 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.5989	BASE CASE
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48714	120.3576	ARCADIA (ARCADIA2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.2707	GEN539677 3-A. M. MULLERGEN GENERATOR
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48645	120.2678	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48717	120.256	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48677	120.2345	OGE3TERM14
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.2274	GEN562032 1-G11-017 0.6900
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.2266	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48761	120.2263	WWRDEHV7 345.00 (WWRDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48715	120.2185	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.216	GEN560329 1-G10-45 0.6900
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.2126	GEN560209 1-G07-40 0.5750
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.2121	GEN560522 1-G05-12 0.6900
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48339	120.1975	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.1952	GEN560170 1-G08-16 34.500
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.176	GEN524285 1-WILDORADO WIND GEN
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48707	120.1713	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48523	120.1698	G08-127T 345.00 - SOONER 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48721	120.1683	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.1656	GEN560595 1-G06-47 0.6000
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.1649	GEN560592 1-G06-45 0.6000
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48643	120.1635	CLEVELAND - SOONER 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48708	120.1554	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.1519	GEN560286 1-G10-01-1WTG 0.6900
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.1519	GEN560287 1-G10-01-2WTG 0.6900
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.1364	GEN562014 1-G11-023 0.6900
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48708	120.1359	OGE3TERM7
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48676	120.1346	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48676	120.1341	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48676	120.1338	AI12
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48669	120.1334	DELAWARE - NEOSHO 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.1295	GEN560256 1-G10-14-1 0.6900
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.1256	GEN560586 1-G06-44-3 0.6000
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.1215	GEN560371 1-G07-46 0.6900
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.1195	GEN560257 1-G10-14-2 0.6900
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.1181	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48606	120.1159	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	120.1094	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48718	120.1042	AMRN_OUT55
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.1037	GEN560173 1-G08-17 0.5750
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.0968	GEN560105 1-G08-22 0.6900
FDNS	01G11_024		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48708	120.0913	CRESWELL - PECKHMT4 138.00 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME	
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48708	120.0909	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48708	120.0896	SPP-WERE-41B
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48762	120.0873	WWRDEHV7 345.00 (WVDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48683	120.0763	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48548	120.0654	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	120.0201	GEN560353 1-G10-52 0.6900
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48708	120.019	SPP-WERE-07B
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48719	119.9992	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.9825	GEN562042 1-G11-014 0.6900
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.9725	GEN523103 1-NOBLE_WND 3115.00
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48540	119.9513	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48540	119.9509	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.9341	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.9211	GEN560359 1-G08-51 0.6900
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48719	119.9004	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.8911	GEN560166 1-G07-48 0.6900
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.8769	GEN560570 1-G06-39 0.6900
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.8727	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48682	119.8422	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.8417	GEN560190 1-G10-08 0.6900
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.8303	GEN560279 1-G08-18 0.6900
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.8273	GEN520997 1-MORLND2
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48619	119.811	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.8106	GEN523461 1-BLACKHAWK GEN #1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.8106	GEN523462 1-BLACKHAWK GEN #2
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.8082	GEN562017 1-G11-022 0.6900
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48523	119.8039	G08-127T 345.00 - ROSE HILL 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48515	119.7849	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.7468	GEN562020 1-G11-021 0.6900
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48458	119.7425	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.7253	GEN560598 1-G06-49 0.6000
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.6951	GEN560121 1-G08-47 0.5750
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.6911	GEN527161 1-MUSTANG GEN #1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.6911	GEN527162 1-MUSTANG GEN #2
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.6908	GEN527165 1-Mustang Gen #5
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.6896	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.6419	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48611	119.6019	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.5835	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.5784	GEN515389 1-TLGAWND1 34.500
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48672	119.5259	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.5081	GEN520922 1-SLEEPING 138.00
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.4675	GEN515790 1-FPLWND2
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.3884	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.3883	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.3815	GEN560155 1-G10-11 0.6900
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	119.2856	GEN515397 1-OUSPRT 1 34.500
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48400	119.2254	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	118.8922	GEN515364 1-CENT 11 0.6000
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	118.8894	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47606	118.8742	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48245	118.8557	REDBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	118.5196	GEN515393 1-OGEWND2G
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	118.3691	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	118.2834	GEN560180 1-G07-51 0.6000
FDNS	01G11_024		0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	118.2511	GEN523971 1-HARRINGTON GEN #1 24 KV

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	118.2446	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	118.2442	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	117.7629	GEN560221 1-G07-62-1 0.6900
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	117.7629	GEN560222 1-G07-62-2 0.6900
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	117.7629	GEN560223 1-G07-62-3 0.6900
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	117.7629	GEN560224 1-G07-62-4 0.6900
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	117.556	GEN531447 1-HOLCOMB GENERATOR
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	117.2836	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	117.197	GEN560429 1-G08-29 0.6400
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46684	116.4878	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	116.2213	GEN562023 1-G11-020 0.6900
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	116.2213	GEN562026 1-G11-019 0.6900
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	112.291	GEN560648 1-G07-21 0.5750
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	112.0824	GEN560115 1-G08-44 0.6900
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	108.2363	GEN560175 1-G07-44 0.5750
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	108.1497	GEN562010 1-G11-024 0.6900
FDNS	01G11_024	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48716	108.0765	GEN560282 1-G08-19 0.6000
FDNS	01G11_024	2	11G	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40974	159.2772	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01G11_024	2	11G	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40974	159.2727	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01G11_024	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.45468	140.7785	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01G11_024	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.45468	140.7751	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01G11_024	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.51468	124.956	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_024	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.51468	124.956	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	01G11_024	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.51468	124.9541	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_024	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.51468	124.9541	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	01G11_024	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30361	100.3232	DBL-MEDLO-WI
FDNS	01G11_024	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.30361	100.3221	DBL-MEDLO-WI
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48134	100.2436	LACYGNE - NEOSHO 345KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.53468	123.3172	DBL-WOOD-MED
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48967	106.9267	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48967	106.9267	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	106.8315	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	105.6948	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49716	105.6232	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49716	105.6232	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	105.2448	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	104.5444	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48484	104.3941	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	103.7515	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	103.5899	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	103.5217	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	103.4608	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	103.4402	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48058	103.1951	ELK CITY 230KV - SWEETW6 230.00 230KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48058	103.1946	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48543	103.1784	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	102.8953	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48543	102.8714	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	102.813	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	102.7934	GEN337041 1-GERALD ANDRUS
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	102.6604	GEN501813 1-RODEMACHER UNIT 3
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48055	102.6193	SPP-SWPS-03
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	102.5596	GEN509403 1-PIRKEY GENERATION
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48543	102.5253	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	102.3487	GEN514806 1-SOONER UNIT 2
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	102.3214	GEN336831 1-BAXTER WILSON SES



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48058	102.2806	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	102.1925	GEN515226 1-MUSKOGEE 6G
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	102.1637	GEN501812 1-RODEMACHER UNIT 2
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	102.124	GEN335206 1-NELSON UNIT 6
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	102.0496	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48058	101.9904	SPP-SWPS-02
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48058	101.9904	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48058	101.9904	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.901	GEN334440 1-SABINE UNIT 4
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.8811	GEN520947 1-HUGO1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48539	101.8467	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48539	101.8133	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.7976	GEN509406 1-WELSH #3
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.7975	GEN509404 1-WELSH #1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.7975	GEN509405 1-WELSH #2
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48474	101.7798	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.7772	GEN335204 1-NELSON UNIT 4
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.7493	GEN515223 1-MUSKOGEE 4G
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.7029	GEN515225 1-MUSKOGEE 5G
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48474	101.6888	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48058	101.6572	SPP-SWPS-02A
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48811	101.6266	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.6097	GEN509394 1-FLINT CREEK
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48438	101.5908	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48549	101.5716	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47998	101.5203	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.5168	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48112	101.4746	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.4708	GEN334441 1-SABINE UNIT 5
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.3751	GEN511841 1-NORTHEASTERN STATION #4
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48224	101.353	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.3464	GEN511840 1-NORTHEASTERN STATION #3
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.3166	GEN511839 1-NORTHEASTERN STATION #2
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.1777	GEN512689 1-GRD1 GSU1 22
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48402	101.1291	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48402	101.0973	CEDARDALE - OKEENE 138KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48602	101.0812	MOORELAND 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48602	101.0771	MOORELAND 345.00 (MRLNDAUTO) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48450	101.0444	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	101.0425	GEN512688 2-GRD1 GSU2 22
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47998	100.9191	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.49175	100.8103	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.6813	GEN515042 1-SEMINOLE 3G
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.6505	GEN336170 1-GULF OXY U4
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47774	100.5941	CIMARRON - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.5699	GEN300006 1-NEW MADRID UNIT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.5648	GEN300007 1-NEW MADRID UNIT 2
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.5634	GEN509409 1-WILKES #3
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48380	100.5445	DOVER SW - OKEENE 138KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.5293	GEN515040 1-SEMINOLE 1G
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.4384	GEN515041 1-SEMINOLE 2G
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47804	100.3781	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.3075	GEN542955 1-LACYGNE UNIT #1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.2976	GEN334070 1-LEWIS CREEK 1
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.2797	GEN514910 2-REDBUD GEN
FDNS	02ALL		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.2797	GEN514911 2-REDBUD GEN

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48236	100.2657	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.261	GEN542956 2-LACYGNE UNIT #2
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48236	100.2244	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.1866	GEN511843 1-RIVERSIDE STATION #2
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48365	100.1806	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48257	100.1673	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48280	100.1609	SPP-MKEC-08
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48235	100.1448	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.1401	GEN514998 1-MCCLAIN UNIT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.1401	GEN514999 1-MCCLAIN UNIT 2
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48239	100.137	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.1331	GEN542962 2-IATAN UNIT #2
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48345	100.1082	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.0855	GEN514900 1-REDBUD2S
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48186	100.0854	GEN514899 1-REDBUD1S
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48500	100	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48338	100	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48327	100	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48327	100	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48261	100	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47804	100	G11-007T 345.00 - WOODRING 345KV CKT 1
FDNS	02ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.47774	100	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40549	128.6358	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	02ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.44944	114.689	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.50933	102.223	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL	2	11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.50933	102.223	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FDNS	03ALL	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.48113	100.97	GEN336821 1-GRAND GULF UNIT
FDNS	03ALL	2	11G	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.40434	140.2344	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	03ALL	2	11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.44854	122.7555	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55321	114.4552	DOLET HILLS - SOUTHWEST SHREVEPORT 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55324	113.6909	LACYGNE - STILWELL 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55331	113.7151	LACYGNE - WEST GARDNER 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55457	115.5315	LACYGNE - NEOSHO 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55355	114.6851	HOYT - STRANGER CREEK 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55352	114.9832	HOYT - JEFFERY ENERGY CENTER 345KV CKT 1
FDNS	00NR	0	12WP	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.59036	110.7164	DBL-MEDLO-WI
FDNS	00NR	0	16WP	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.59080	110.4044	DBL-MEDLO-WI
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.1213	BASE CASE
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55321	113.8051	DOLET HILLS 345/230KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55329	113.6365	FLINT CREEK - GRDA1 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55385	113.7038	FLINT CREEK - SUB 383 - MONETT 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55375	113.4193	CHAMBER SPRINGS - CLARKSVILLE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55402	113.7316	CLARKSVILLE - MUSKOGEE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55039	112.5043	REBUD - RIVERSIDE STATION 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55402	114.6172	NORTHEAST STATION - ONETA 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55282	113.8148	CLEVELAND - TULSA NORTH 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55577	113.1536	DELAWARE - NORTHEAST STATION 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55560	113.7365	DELAWARE - NEOSHO 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55336	112.8619	PITTSBURG - VALLIANT 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55312	113.3525	PITTSBURG - SEMINOLE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55403	114.5962	HINTON - WEATHERFORD JCT. 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55403	114.5859	CAN_GAS4 138.00 - HINTON 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55405	114.5036	CARNEGIE - HOBART JUNCTION 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55405	114.463	CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55468	115.3156	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55468	115.2704	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.56610	124.409	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.56610	118.5942	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55547	115.7748	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55463	115.2822	ELK CITY - RHWIND4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55459	114.8743	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55367	114.4948	CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55403	114.7413	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55501	116.1995	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55367	114.5679	WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55367	114.4641	CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55367	114.6586	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55403	114.5442	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55501	115.114	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55387	114.4341	CHILDRESS - LAKE PAULINE 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55356	114.5014	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55279	113.7052	CLEVELAND - SOONER 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55544	114.9091	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55544	114.942	HENESSEY - WAUKOMIS 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55375	114.607	MARSHALL - WOODRING 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55931	115.7888	G08-13T 345.00 - WOODRING 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55149	114.651	G11-007T 345.00 - WOODRING 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55421	114.6567	KNOBHILL - SALINE 69KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55421	114.6554	HELENAT2 69.000 - SALINE 69KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55421	114.5704	GOLTRY - IMO 69KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55421	114.5874	GOLTRY - HELENAT2 69.000 69KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55400	114.436	IMO TAP - SOUTH 4TH ST 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55375	114.5985	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55428	113.7194	KILDARE4 - NEWKIRK4 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55428	113.6576	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55387	113.7747	KILDARE4 - WHITE EAGLE 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55544	115.0167	DOVER SW - HENESSEY 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55786	117.0547	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55890	117.216	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.1336	GEN509406 1-WELSH #3
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.4534	GEN509408 1-WILKES #2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.9181	GEN509409 1-WILKES #3
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.8488	GEN511836 1-NORTHEASTERN STATION #1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.9388	GEN511837 1-NORTHEASTERN STATION # 1-1A
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.9388	GEN511838 1-NORTHEASTERN STATION # 1-1B
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	116.662	GEN511839 1-NORTHEASTERN STATION #2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	116.6874	GEN511840 1-NORTHEASTERN STATION #3
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	116.7157	GEN511841 1-NORTHEASTERN STATION #4
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.5654	GEN511843 1-RIVERSIDE STATION #2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7224	GEN511851 1-COMANCHE #1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5474	GEN511852 1-COMANCHE #2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5484	GEN511853 1-COMANCHE #3
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7364	GEN511938 1-OEC STEAM # 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7674	GEN511953 G-COGENTRIX GAS # 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7668	GEN511954 S-COGENTRIX STEAM # 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	116.3837	GEN512688 2-GRDA1 GSU2 22
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	116.5192	GEN512689 1-GRDA1 GSU1 22
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.5565	GEN514805 1-SOONER UNIT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.8774	GEN514806 1-SOONER UNIT 2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.5867	GEN514899 1-REDBUD1S
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.5868	GEN514900 1-REDBUD2S
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0647	GEN514905 1-REDBUD3S

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.7967	GEN514910 2-REDBUD GEN
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.7967	GEN514911 2-REDBUD GEN
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.9602	GEN514912 2-REDBUD GEN
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.6383	GEN514998 1-MCCLAIN UNIT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.6383	GEN514999 1-MCCLAIN UNIT 2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.9006	GEN515000 1-MCCLAIN UNIT 3
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	116.1547	GEN515040 1-SEMINOLE 1G
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.9443	GEN515041 1-SEMINOLE 2G
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	116.2043	GEN515042 1-SEMINOLE 3G
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.2905	GEN515223 1-MUSKOGEE 4G
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.2416	GEN515225 1-MUSKOGEE 5G
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.7524	GEN515226 1-MUSKOGEE 6G
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.078	GEN515266 1-AES 1G
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.078	GEN515267 1-AES 2G
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	112.5388	GEN515364 1-CENT 11 0.6000
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.172	GEN515389 1-TLGAWND1 34.500
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	112.1909	GEN515393 1-OGEWND2G
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	112.8766	GEN515397 1-OUSPT 1 34.500
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7705	GEN515443 1-MNCOWND1 34.500
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.0657	GEN515790 1-FPLWND2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7194	GEN520811 1-ANADRK4
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.781	GEN520812 1-ANADRK5
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7809	GEN520813 1-ANADRK6
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.1075	GEN520922 1-SLEEPING 138.00
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.3139	GEN520947 1-HUGO1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.3566	GEN520997 1-MORLND2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.642	GEN521129 1-BLUCANS 4 138.00
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.5395	GEN523103 1-NOBLE_WND 3115.00
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.3872	GEN523461 1-BLACKHAWK GEN #1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.3873	GEN523462 1-BLACKHAWK GEN #2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	111.9244	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	111.918	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	111.9184	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.734	GEN524285 1-WILDORADO WIND GEN
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	112.0331	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	111.0083	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.274	GEN527161 1-MUSTANG GEN #1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.274	GEN527162 1-MUSTANG GEN #2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.228	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.2729	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.2743	GEN527165 1-Mustang GEN #5
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.8071	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	112.9984	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	112.9984	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	112.5326	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	111.2877	GEN531447 1-HOLCOMB GENERATOR
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5403	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5395	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5338	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.0652	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.1752	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.8207	GEN539677 3-A. M. MULLERGREN GENERATOR
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.6787	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7856	GEN541151 3-SIBLEY GENERATING UNIT #3
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.011	GEN542951 5-HAWTHORN UNIT #5
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.4595	GEN542952 1-MONTROSE UNIT #1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.5406	GEN542955 1-LACYGNE UNIT #1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.4336	GEN542956 2-LACYGNE UNIT #2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0649	GEN542957 1-IATAN UNIT #1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.2854	GEN542962 2-IATAN UNIT #2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5618	GEN546702 1-NM GEN N1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0181	GEN547649 1-ASBURY UNIT #1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.8163	GEN547656 1-STATE LINE UNIT #2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.928	GEN549890 1-SOUTHWEST 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7473	GEN549893 2-SOUTHWEST 2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5248	GEN549899 5-JAMES RIVER 5
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.6608	GEN560105 1-G08-22 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	107.6617	GEN560115 1-G08-44 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.4638	GEN560118 1-G08-46 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.2783	GEN560121 1-G08-47 0.5750
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.1708	GEN560155 1-G10-11 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.4668	GEN560166 1-G07-48 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5217	GEN560169 1-G08-13 0.5750
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.7491	GEN560170 1-G08-16 34.500
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.6645	GEN560173 1-G08-17 0.5750
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	104.5443	GEN560175 1-G07-44 0.5750
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	111.9728	GEN560180 1-G07-51 0.6000
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.4188	GEN560190 1-G10-08 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.763	GEN560209 1-G07-40 0.5750
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	111.4861	GEN560221 1-G07-62-1 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	111.4861	GEN560222 1-G07-62-2 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	111.4861	GEN560223 1-G07-62-3 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	111.4861	GEN560224 1-G07-62-4 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.8154	GEN560238 1-G10-09 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.6846	GEN560256 1-G10-14-1 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.6753	GEN560257 1-G10-14-2 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.4086	GEN560279 1-G08-18 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	104.4901	GEN560282 1-G08-19 0.6000
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.7041	GEN560286 1-G10-01-1WTG 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.7041	GEN560287 1-G10-01-2WTG 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.851	GEN560323 1-G10-40 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.7657	GEN560329 1-G10-45 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.5877	GEN560353 1-G10-52 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.4941	GEN560359 1-G08-51 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.6793	GEN560371 1-G07-46 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	110.9812	GEN560429 1-G08-29 0.6400
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.7621	GEN560522 1-G05-12 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.8201	GEN560549 1-G06-06 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.4534	GEN560570 1-G06-39 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.8112	GEN560585 1-G06-44-2 0.6000
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.6787	GEN560586 1-G06-44-3 0.6000
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.7236	GEN560592 1-G06-45 0.6000
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.7243	GEN560595 1-G06-47 0.6000
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.3106	GEN560598 1-G06-49 0.6000
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.8054	GEN560623 1-ASGI-10-01 0.6000
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.1445	GEN560636 1-ASGI-10-06 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.1447	GEN560639 1-ASGI-10-07 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5357	GEN560645 1-ASGI-10-09 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	107.6814	GEN560648 1-G07-21 0.5750
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	116.7736	GEN560687 1-G11-007 0.5750
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	102.0997	GEN562010 1-G11-024 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.6905	GEN562014 1-G11-023 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.3874	GEN562017 1-G11-022 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.3324	GEN562020 1-G11-021 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	109.0844	GEN562023 1-G11-020 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	109.0844	GEN562026 1-G11-019 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.7775	GEN562032 1-G11-017 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.5485	GEN562042 1-G11-014 0.6900
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7239	GEN599891 1-OKLAUN
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.8845	GEN640009 1-COOPER NUCLEAR STATION
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.4734	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.5306	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5529	GEN645001 1-FORT CALHOUN 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.6467	GEN645011 1-NEBRASKA CITY 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7373	GEN645012 2-NEBRASKA CITY 2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55428	114.5481	FPL SWITCH - WOODWARD 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55540	114.7186	DEWEY - IODINE 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55942	117.4708	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55786	117.1278	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55890	117.1937	IMO TAP - MEN TAP 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55435	115.1	KNOBHILL - MOORELAND 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55540	114.7697	IODINE - WWRDEHV4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55343	113.8046	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55942	120.129	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55395	114.6438	CIMARRON - EL RENO 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55942	117.1368	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.53501	110.4622	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.53677	112.2956	ARCADIA - NORTHWEST 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55041	113.3083	CIMARRON - DRAPER LAKE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55149	116.8522	CIMARRON - G11-007T 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55179	113.5231	ARCADIA - HORSESHOE LAKE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55179	113.5246	HORSESHOE LAKE - SEMINOLE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55301	114.6167	MORRISON - STILLWATER 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55300	114.4568	KINZE - MCELROY 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55300	114.5001	MCELROY - STILLWATER 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55372	113.6992	FT SMITH - MUSKOGEE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55835	116.1387	BORDER 7345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.56833	121.7891	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.56833	121.7891	MED-LDG5 345.00 - WWRDEHV7 345.00 345KV CKT 2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55428	113.6579	CRESWELL - PECKHMT4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55428	114.9727	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55375	114.5399	ARAPAHO - HAMON BUTLER 69KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55375	114.5385	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55372	114.4261	CALUMET - WATONGA SW 69KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55367	114.4795	CANTON - OKEENE 69KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55367	114.5056	CANTON - TALOGA 69KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55670	116.477	CEDARDALE - MOORELAND 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55670	116.4448	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55379	114.4986	CLINTON - WEATHERFORD 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55379	114.5148	CLINTON - G07-32T 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55375	114.5113	CORDELL - INDUSTRIAL PARK 69KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55637	115.945	DOVER SW - OKEENE 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55375	114.5405	HAMON BUTLER - PUTNAM 69KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55379	114.4449	HYDRO - SICKLES 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55379	114.4739	HYDRO - WEATHERFORD 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55617	116.2509	MOORELAND - NINMILE 4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55463	115.0407	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55617	116.2406	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55389	114.5903	OKEENE - WATONGA SW 69KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55375	114.5591	PUTNAM - TALOGA 69KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55524	114.576	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55501	115.3655	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55435	115.305	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55864	118.4779	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55501	115.114	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55356	114.5426	MCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55356	114.5625	KIRBY SWITCHING STATION - MCLELLAN SUB 115KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55524	115.0492	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55428	114.649	G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55327	114.5227	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55334	114.6816	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.56610	117.8341	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55349	114.6475	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55382	114.8553	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55595	117.4119	G10-16T 345.00 - POSTROCK7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55502	115.9472	AXTELL - POSTROCK7 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55382	115.2406	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55541	115.7051	HOLCOMB - SETAB 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55609	116.7124	MINGO - SETAB 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55646	116.7367	MINGO - RED WILLOW 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55742	117.1335	GRAY CO 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55595	116.934	G10-16T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55353	114.4219	EMPORIA ENERGY CENTER - SWISSVALE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55360	114.5429	EMPORIA ENERGY CENTER - WICHITA 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55380	114.5486	SWISSVALE - WEST GARDNER 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55663	114.9901	BENTON - ROSE HILL 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55861	116.2582	BENTON - WICHITA 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55446	115.1159	G05-13T 345.00 - NEOSHO 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55446	114.7245	LATHAM57 345.00 - ROSE HILL 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55933	113.5032	G08-127T 345.00 - ROSE HILL 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55931	113.7066	SUMNERCO 345.00 - WICHITA 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.56266	121.1079	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.56266	121.1079	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55333	114.6488	ANDERSONCO 345.00 - WOLF CREEK 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55446	114.9883	G05-13T 345.00 - LATHAM57 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55398	115.1601	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55441	115.0618	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55373	114.5356	MED-LDG5 345.00 345/138KV TRANSFORMER CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55390	115.1411	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55333	114.6899	ANDERSONCO 345.00 - LACYGNE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55385	113.704	BROOKLINE - SUB 383 - MONETT 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55931	115.0941	G08-13T 345.00 - SUMNERCO 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55889	115.99	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55382	114.9918	AXTELL - PAULINE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55459	114.7956	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55332	114.5705	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55329	114.4376	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55346	114.4248	MCCOOL - MOORE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55345	114.5422	GRAND ISLAND - MCCOOL 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55378	114.8958	MOORE - PAULINE 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55377	115.3222	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55326	113.8185	BAXTER WILSON SES - PERRYVILLE 500KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55325	114.4524	LAKEOVER - MCADAMS 500KV CKT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55329	114.4457	MCADAMS - WOLF CREEK 500KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55333	113.7259	ARKANSAS NUCLEAR ONE - PLEASANT HILL 500KV CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55340	113.4652	KEO EHV - WEST MEMPHIS 500 500KV CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55334	113.5597	DELL 500 - INDEPENDENCE 500KV CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55501	116.2003	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55356	114.5003	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55435	115.0853	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55196	113.188	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55206	113.3841	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55342	114.5329	SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55477	114.6808	ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55383	113.6683	WWRDEHV7 345.00 (WVDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55383	113.7651	WWRDEHV7 345.00 (WVDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55347	114.4307	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55428	115.0265	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55359	114.5116	7OVERTON 345.00 - SIBLEY 345KV CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55330	114.4389	CLINTON - MONTROSE 161KV CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55351	114.476	BROOKLINE - MORGAN 345KV CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.1866	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.1866	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55338	114.4211	RED WILLOW (R.WIL T1) 345/115/13.8KV TRANSFORMER CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55322	114.5694	8DANIEL 500.00 - MCKNIGHT 500KV CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55337	113.6649	8BHAM STEEL 500.00 - WEST MEMPHIS 500 500KV CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55333	114.5594	NUNDRWD - WAYSIDE 230KV CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55328	114.4465	STEGALL - WAYSIDE 230KV CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	113.7432	BURLINGTON NO1 + NO 2 + NO 3 161/20.0KV TRANSFORMER CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0068	DBL-COM-MEDL
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.59240	145.5011	DBL-MEDLO-WI
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55704	114.8759	DBL-HIT-G084
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.56823	115.5908	DBL-G0847-WO
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.60545	141.424	DBL-WOOD-MED
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55562	115.0008	OGE3TERM1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55306	114.6173	OGE3TERM2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55429	113.7005	OGE3TERM7
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55413	114.4506	OGE3TERM10
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55278	113.7901	OGE3TERM14
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55501	115.114	SPP-SWPS-02
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55501	114.71	SPP-SWPS-02A
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55356	114.4943	SPP-SWPS-T54
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55441	115.1427	SPP-MKEC-05
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55441	115.4092	SPP-MKEC-08
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55429	113.5877	SPP-WERE-07B
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55441	115.1457	SPP-WERE-34
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55428	113.6564	SPP-WERE-41B
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55354	115.0281	WRTOD400
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55385	113.7037	AI12
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55337	113.6599	AMRN_OUT55
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55359	114.4852	OVERTON-TRF
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55326	114.6374	FIELD NORTH - LKFLDXL3 345KV CKT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.4428	GEN300001 1-THOMAS HILL UNIT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.6674	GEN300002 1-THOMAS HILL UNIT 2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.8784	GEN300003 1-THOMAS HILL UNIT 3
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.8189	GEN300006 1-NEW MADRID UNIT 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.8133	GEN300007 1-NEW MADRID UNIT 2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.6511	GEN300016 1-1G1GPDEL 18.000
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.6511	GEN300017 1-1G2GPDEL 18.000
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7919	GEN300031 1-CHOUTEAU CTG 1



SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7919	GEN300032 1-CHOUTEAU CTG 2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.1663	GEN318007 1-5MOROW161 161.00
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.1482	GEN334030 1-FRONTIER UNIT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0454	GEN334031 1-FRONTIER UNIT 2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.616	GEN334070 1-LEWIS CREEK 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5595	GEN334232 1-PELCNRD U1 13.800
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5595	GEN334233 1-PELCNRD U2 13.800
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.45	GEN334282 1-SAM RAYBURN 4
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5481	GEN334298 1-CYPR U1 13.800
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5481	GEN334299 1-CYPR U2 13.800
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.562	GEN334335 1-TOLEDO BEND
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7492	GEN334374 1-COTTONWOOD/INTERGEN UNIT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.9965	GEN334392 1-EXXON MOBIL IPP 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.1387	GEN334440 1-SABINE UNIT 4
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	116.7266	GEN334441 1-SABINE UNIT 5
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.456	GEN334458 1-CONOCO UNIT#3
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5871	GEN334467 1-DUPONT UNIT#1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.9924	GEN335075 1-DYNEGY#1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.032	GEN335076 1-DYNEGY UNIT2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.6299	GEN335137 C4-PPG
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7812	GEN335201 1-NELSON UNIT 1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7191	GEN335202 1-NELSON UNIT 2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0557	GEN335203 1-NELSON UNIT 3
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.0157	GEN335204 1-NELSON UNIT 4
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.3449	GEN335206 1-NELSON UNIT 6
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.6599	GEN335545 1-DOW AEP UNITS
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.563	GEN335546 3-DOW COGEN
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.6624	GEN335611 1-WILLOW GLENN UNIT#1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.695	GEN335612 1-WILLOW GLENN UNIT#2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.4341	GEN335640 1-ENCO
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.516	GEN335644 1-EXXON UNITS
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	120.3661	GEN335831 1-RIVERBEND UNIT#1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0363	GEN336167 1-GULF OXY U1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0363	GEN336168 1-GULF OXY U2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0363	GEN336169 1-GULF OXY U3
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.9326	GEN336170 1-GULF OXY U4
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5362	GEN336176 1-UNION CARBIDE COGEN GT1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5362	GEN336177 1-UNION CARBIDE COGEN GT2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	118.0841	GEN336251 1-NINEMILE POINT UNIT#4
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	116.7636	GEN336801 1-BAXTER WILSON UNIT #1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	121.9255	GEN336821 1-GRAND GULF UNIT
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.5263	GEN336831 1-BAXTER WILSON SES
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0779	GEN337006 1-DUKE MCADAMS G1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0779	GEN337007 1-DUKE MCADAMS G2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0574	GEN337008 1-DUKE MCADAMS S1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.9677	GEN337041 1-GERALD ANDRUS
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.6601	GEN337124 5-LS POWER BATESVILLE
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0913	GEN337125 6-LS POWER BATESVILLE
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0158	GEN337421 1-OUCHITA CTG1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.6832	GEN337422 1-OUCHITA STG1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0158	GEN337423 1-OUCHITA CTG2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.6832	GEN337424 1-OUCHITA STG2
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0158	GEN337425 1-OUCHITA CTG3
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.6832	GEN337426 1-OUCHITA STG3
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.1295	GEN337428 1-PERYVILLE UNIT #1
FDNS	01NR	0	11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.1022	GEN337429 1-PERYVILLE UNIT #2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.1295	GEN337430 1-PERYVILLE UNIT #3
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.1022	GEN337432 1-PERYVILLE UNIT #5
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	118.9568	GEN337652 1-WHITE BLUFF UNIT #1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	118.6065	GEN337653 1-WHITE BLUFF UNIT #2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	119.7455	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	120.8549	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.835	GEN337954 1-LYNCH UNIT #3
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	118.6959	GEN338143 1-INDEPENDENCE UNIT #1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	118.7654	GEN338146 1-INDEPENDENCE UNIT #2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.9346	GEN338189 1-LS POWER OSCEOLA UNIT G1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.9291	GEN338500 1-MCCLELLAN UNIT #1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7402	GEN338510 1-1S1KNWRI
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.4283	GEN338511 1-1C7KNWRI
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7806	GEN338513 1-BAILEY UNIT #1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.5746	GEN500915 3-WESTERN KRAFT
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	118.6482	GEN501801 1-DOLET HILLS UNIT1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.3869	GEN501812 1-RODEMACHER UNIT 2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.863	GEN501813 1-RODEMACHER UNIT 3
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.1357	GEN501823 1-TECHE UNIT 3
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.7222	GEN501910 1-ACADIA UNIT ST1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.0218	GEN501911 1-ACADIA UNIT CT1A
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.714	GEN503900 1-FITZHUGH CT1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.2431	GEN505432 1-SIKESTON
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.6794	GEN506749 1-EASTMAN GENERATION A
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.4277	GEN506750 1-EASTMAN GENERATION B
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.9501	GEN506752 1-LEBROCK GAS 1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	114.4788	GEN506753 1-LEBROCK GAS 2
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.1689	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.1689	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	115.1582	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	116.9357	GEN509394 1-FLINT CREEK
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.8826	GEN509403 1-PIRKEY GENERATION
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.1334	GEN509404 1-WELSH #1
FDNS	01NR		0 11G	G11_024	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.55320	117.1335	GEN509405 1-WELSH #2
FDNS	00NR		2 12SP	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.50951	114.2931	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR		2 12SP	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.56701	100.4377	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00NR		2 12WP	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.48731	124.9704	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR		2 12WP	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.54371	111.1275	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00NR		2 16SP	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.49928	124.0189	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR		2 16SP	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.56054	108.3724	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	00NR		2 16WP	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.48820	123.7113	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	00NR		2 16WP	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.54758	110.9874	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01NR		2 11G	G11_024	TO->FROM	CIMARRON - MATTHEWSON 345.00 345KV CKT 1	956	0.48648	156.9428	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1
FDNS	01NR		2 11G	G11_024	FROM->TO	MATTHEWSON 345.00 - NORTHWEST 345KV CKT 1	1195	0.54615	138.8338	CIMARRON - MATTHEWSON 345.00 345KV CKT 1
FDNS	01NR		2 11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2	1195	0.58082	117.8475	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01NR		2 11G	G11_024	TO->FROM	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.58082	117.8475	MATTHEWSON 345.00 - TATONGA7 345.00 345KV CKT 2
FNSL-Blown up	3		0 11G	G11_025		Non Converged Contingency	0	0.16174	-	DBL-MEDLO-WI
FNSL-Blown up	3		2 11G	G11_025		Non Converged Contingency	0	0.15141	-	DBL-MEDLO-WI
FNSL-Blown up	3		3 11G	G11_025		Non Converged Contingency	0	0.15140	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL		0 11G	G11_025		Non Converged Contingency	1195	0.11027	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	G11_025		Non Converged Contingency	1195	0.11027	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	G11_025		Non Converged Contingency	1195	0.11027	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	G11_025		Non Converged Contingency	0	0.16316	-	DBL-MEDLO-WI
FNSL-Blown up	01ALL		0 11G	G11_025		Non Converged Contingency	0	0.15756	-	DBL-WOOD-MED
FNSL-Blown up	02ALL		0 11G	G11_025		Non Converged Contingency	0	0.15783	-	DBL-MEDLO-WI
FNSL-Blown up	02ALL		0 11G	G11_025		Non Converged Contingency	0	0.10880	-	DBL-G0847-WO

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	02ALL		2 11G	G11_025		Non Converged Contingency	0	0.19100	-	DBL-HIT-G084
FNSL-Blown up	02ALL		2 11G	G11_025		Non Converged Contingency	0	0.11506	-	DBL-G0847-WO
FNSL-Blown up	02ALL		3 11G	G11_025		Non Converged Contingency	0	0.19102	-	DBL-HIT-G084
FNSL-Blown up	02ALL		3 11G	G11_025		Non Converged Contingency	0	0.11508	-	DBL-G0847-WO
FNSL-Blown up	03ALL		0 11G	G11_025		Non Converged Contingency	1195	0.10296	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_025		Non Converged Contingency	1195	0.10296	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_025		Non Converged Contingency	1195	0.10296	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_025		Non Converged Contingency	1792	0.04822	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_025		Non Converged Contingency	1328	0.05216	-	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_025		Non Converged Contingency	1195	0.03606	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_025		Non Converged Contingency	1195	0.03606	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_025		Non Converged Contingency	0	0.14429	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		0 11G	G11_025		Non Converged Contingency	0	0.10696	-	DBL-G0847-WO
FNSL-Blown up	03ALL		2 11G	G11_025		Non Converged Contingency	1195	0.12943	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_025		Non Converged Contingency	1195	0.03442	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_025		Non Converged Contingency	0	0.13500	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	G11_025		Non Converged Contingency	1792	0.12949	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_025		Non Converged Contingency	1195	0.03443	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_025		Non Converged Contingency	1195	0.03443	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_025		Non Converged Contingency	0	0.13502	-	DBL-MEDLO-WI
FNSL-Blown up	03ALL		3 11G	G11_025		Non Converged Contingency	0	0.11333	-	DBL-G0847-WO
FNSL-Blown up	03ALL		4 11G	G11_025		Non Converged Contingency	1792	0.12885	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_025		Non Converged Contingency	1792	0.12885	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_025		Non Converged Contingency	1792	0.04563	-	SPEARVILLE 345.00 - POSTROCK7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_025		Non Converged Contingency	1195	0.03359	-	MULGREN7 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_025		Non Converged Contingency	1195	0.03359	-	CIRCLE 7 345.00 - RENO COUNTY 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_025		Non Converged Contingency	1792	0.06673	-	MED-LDG5 345.00 - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_025		Non Converged Contingency	1792	0.06673	-	MED-LDG5 345.00 - WICHITA 345KV CKT 2
FNSL-Blown up	03ALL		4 11G	G11_025		Non Converged Contingency	1195	0.03359	-	CIRCLE 7 345.00 - MULGREN7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_025		Non Converged Contingency	956	0.03768	-	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
FNSL-Blown up	03ALL		4 11G	G11_025		Non Converged Contingency	0	0.13347	-	DBL-MEDLO-WI
FDNS	2		2 11G	G11_025	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.22225	105.0433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		2 11G	G11_025	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.22225	105.0432	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		2 11G	G11_025	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21970	117.5903	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2 11G	G11_025	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21970	117.5627	G08-14T 345.00 - OKLAUNION 345KV CKT 1
FDNS	02ALL		2 11G	G11_025	TO->FROM	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1	1195	0.21970	116.5021	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		2 11G	G11_025	FROM->TO	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1	1195	0.21970	116.4728	G08-14T 345.00 - TUCO INTERCHANGE 345KV CKT 1
FNSL-Blown up	3		0 11G	G11_027		Non Converged Contingency	0	0.04622	-	DBL-COM-MEDL
FNSL-Blown up	3		2 11G	G11_027		Non Converged Contingency	0	0.04628	-	DBL-COM-MEDL
FNSL-Blown up	3		3 11G	G11_027		Non Converged Contingency	0	0.04633	-	DBL-COM-MEDL
FNSL-Blown up	01ALL		0 11G	G11_027		Non Converged Contingency	1195	0.03074	-	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	G11_027		Non Converged Contingency	1195	0.03074	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	01ALL		0 11G	G11_027		Non Converged Contingency	1195	0.03074	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_027		Non Converged Contingency	1052	0.05465	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_027		Non Converged Contingency	1792	0.05166	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		0 11G	G11_027		Non Converged Contingency	0	0.04476	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		0 11G	G11_027		Non Converged Contingency	0	0.04476	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		0 11G	G11_027		Non Converged Contingency	0	0.06833	-	DBL-WOOD-MED
FNSL-Blown up	03ALL		2 11G	G11_027		Non Converged Contingency	1195	0.03015	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_027		Non Converged Contingency	1052	0.05497	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL		2 11G	G11_027		Non Converged Contingency	0	0.04496	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		2 11G	G11_027		Non Converged Contingency	0	0.04496	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		3 11G	G11_027		Non Converged Contingency	1792	0.03094	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1
FNSL-Blown up	03ALL		3 11G	G11_027		Non Converged Contingency	0	0.04503	-	DBL-SPRVL-CO
FNSL-Blown up	03ALL		3 11G	G11_027		Non Converged Contingency	0	0.04503	-	DBL-COM-MEDL
FNSL-Blown up	03ALL		4 11G	G11_027		Non Converged Contingency	1792	0.03076	-	G11-015T 345.00 - WWRDEHV7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTINGENCY NAME
FNSL-Blown up	03ALL	4	11G	G11_027		Non Converged Contingency	1792	0.03076	-	G11-015T 345.00 - TATONGA7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_027		Non Converged Contingency	1052	0.05465	-	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_027		Non Converged Contingency	1052	0.05465	-	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_027		Non Converged Contingency	1792	0.05182	-	2008-047T 345.00 - GRAY CO 345.00 345KV CKT 1
FNSL-Blown up	03ALL	4	11G	G11_027		Non Converged Contingency	0	0.04378	-	DBL-COM-MEDL
FNSL-Blown up	03ALL	4	11G	G11_027		Non Converged Contingency	0	0.07006	-	DBL-WOOD-MED

## **H: Powerflow Analysis (Constraints Between 3% and 20% TDF)**

**\*\*The results will be available by request\*\***

## **I: Stability Study for Group 1**

# **Preliminary Report**

**For**

**Southwest Power Pool**

**From**

**S&C Electric Company**

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## **DEFINITIVE IMPACT RE-STUDY DISIS-2011-001-1 (Group 1)**

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**S&C Project No. 5814**

**November 29, 2011**



**S&C Electric Company**

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**Report Revision History:**

Date of Report	Issue	Comments
November 9, 2011	Rev. A	Preliminary report issued for review and approval
November 29, 2011	Rev. B	Revised preliminary report issued for review and approval

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## EXECUTIVE SUMMARY

S&C Electric Company has performed an interconnection impact re-study for the Definitive Impact Study DISIS-2011-001-1 (Group 1) in response to a request through the Southwest Power Pool (SPP) tariff studies. Group 1 includes three interconnection wind-farm projects.

Group 1 and prior-queued projects in the Oklahoma Gas and Electric (OKGE) area were studied at 100% output power using 2010/2011 summer and winter peak loading cases provided by SPP.

SPP requires that interconnection request projects meet a voltage schedule at the point of interconnection (POI) consistent with the voltage in the SPP base case or nominal voltage, whichever is higher. The power factor requirements are for N-1 (or N-2 contingencies if applicable) contingencies specified by SPP. Power Factor analysis for the study projects revealed that the generating facilities must meet the following requirements to maintain nominal voltage at the POI:

- GEN-2011-019 is required to maintain a power factor of 99.57% lagging to 95% leading at the POI.
- GEN-2011-020 is required to maintain a power factor of 99.57% lagging to 95% leading at the POI.
- GEN-2011-024 is required to maintain a power factor of 95% lagging up to unity power factor at the POI.

Transient stability analysis indicates that Group 1 will successfully ride-through each N-1 fault contingency specified by SPP and the nearby areas will retain angular, frequency and voltage stability. Group 1 can successfully interconnect into the transmission system at the desired location without reduction in output power. Note that there are some drastic changes and oscillation issues in double-circuit (N-2) contingencies 7, 8, 10, 11, and 44. Also two prior-queued projects Gen-2007-006 and GEN-2006-046 are tripping off-line in double-circuit contingencies 10 and 11 due to undervoltage protection. These cases are stable and no other generator trip if voltage-protection disabled for the aforementioned projects. These results are consistent with the original study results for Group 1 (please see Final report for DISIS-2011-001 issued on July 25, 2011 to SPP).

## 1. INTRODUCTION

S&C Electric Company has performed an interconnection impact study for the Definitive Impact Re-Study DISIS-2011-001-1 (Group 1) in response to a request through the Southwest Power Pool (SPP) Tariff studies. Group 1 includes projects as follows.

**Table 1.1: Study Projects in Group 1**

<b>Project</b>	<b>Size (MW)</b>	<b>Wind Turbine Model</b>	<b>Point of Interconnection</b>
GEN-2011-019	299	Siemens 2.3MW	Woodward 345kV Bus
GEN-2011-020	299	Siemens 2.3MW	Woodward 345kV Bus
GEN-2011-024	299	Siemens 2.3MW	Tatonga 345kV Bus

Group 1 and prior queued projects in the Oklahoma Gas and Electric (OKGE) area were studied at 100% output power using 2010/2011 summer and winter peak loading cases provided by SPP.

## 2. TRANSMISSION SYSTEM AND STUDY AREA

The wind generation projects in Group 1 will interconnect into OKGE. In addition to the OKGE area, the following areas were monitored:

AEP West (AEPW)

Sunflower Electric Power Company (SUNC)

Western Farmers Electric Cooperative (WFEC)

Southwestern Public Service (SPS)

Midwest Energy, Inc. (MIDW)

Westar Energy, Inc. (WERE)

### 3. POWER FLOW BASE CASES

The following power flow base cases were provided by SPP:

**MDWG\_2010\_2011SP\_DISIS-2010-001-1-G1.sav** – Summer peak 2010/2011, which includes aggregate representation of wind-turbine generators for Definitive Impact Re-Study DISIS-2011-001-1 (Group 1) and prior queued projects at 100% output power.

**MDWG\_2010\_2011WP\_DISIS-2010-001-1-G1.sav** – Winter peak 2010/2011, which includes aggregate representation of wind-turbine generators for Definitive Impact Re-Study DISIS-2011-001-1 (Group 1) and prior queued projects at 100% output power.

### 4. POWER FLOW MODEL

Definitive Impact Re-Study DISIS-2011-001-1 (Group 1) and prior queued projects were modeled as aggregates of wind-turbine generators. The aggregate models were part of the base case supplied by SPP. Single-line diagrams and other information corresponding to the Group 1 project can be found in Appendix A.

#### 4.1 *Siemens SWT 2.3 MW / 60 Hz Wind Turbine Generator*

The SWT WTG consists of a rotor, gearbox, induction generator, machine bridge, DC link, and network bridge. The machine bridge and network bridge decouple the generator from the power system and allows the WTG to operate at a definite power factor setpoint. The power factor range of operation in steady-state and dynamically is variable and is a function of the voltage at the generator terminals and the active power output of the generator. At rated output power and at nominal terminal voltage, the output power factor range varies from 90% leading (inductive) to 90% lagging (capacitive) power factor. The lagging power factor range is reduced if the terminal voltage is higher than nominal. The leading power factor range is reduced if the terminal voltage is less than nominal and increased if the terminal voltage is greater than nominal.

## 5. POWER FACTOR REQUIREMENTS AT THE POINT OF INTERCONNECTION

SPP has specific voltage requirements for interconnecting wind farm requests. Such projects are required to meet a voltage schedule at the POI consistent with the voltage in the SPP base case or nominal voltage, whichever is higher, for single (or N-2, if applicable) transmission facility outage contingencies specified by SPP.

### 5.1 Facility Outage Contingencies

The base case voltages at the point of interconnection for summer and winter are listed in Table 5.1.

Single transmission facility outage contingencies specified by SPP are listed in Table 5.2.

**Table 5.1: Base Case Voltage at the Point of Interconnection**

Point of Interconnection	Summer Peak 2010/2011 (pu)	Winter Peak 2010/2011 (pu)
Woodward 345kV (515375)	1.005	0.999
Tatonga 345kV (515407)	0.976	0.968

**Table 5.2: List of Power Flow Contingencies**

Cont. No.	Description
0	System Intact
1	Outage of the Woodward (515375) to Border (525835) 345kV line
2	Outage of the Woodward (515375) to Mooreland (560304) 345kV line
3	Outage of the Woodward (515375) to GEN-2008-047 Tap (580500)
4	Outage of the double ckts of the Woodward (515375) to Medicine Lodge (765342) 345kV lines
5	Outage of the Woodward 345kV (515375) to 138kV (515376) transformer
6	Outage of the double ckts of the Tatonga (515407) to Mathewson Northwest (560368) 345kV line
7	Outage of the Northwest (514880) to Spring Creek (514881) 345kV line
8	Outage of the Northwest (514880) to Cimarron (514901) 345kV line
9	Outage of the Northwest 345kV (514880) to 138kV (514879) transformer T2
10	Outage of the Arcadia (514908) to Northwest (514880) 345kV line
11	Outage of the Woodward EHV (515376) to Iodine (514796) 138kV line
12	Outage of the Mathewson (560368) to Woodring (514715) 345kV line
13	Outage of the Mathewson (560368) to Cimarron (514901) 345kV line
14	Outage of the Mooreland (520999) to Windfarm (515785) 138kV line
15	Outage of the Mooreland (520999) to Cedardale (520848) 138kV line
16	Outage of the Mooreland (520999) to Iodine (520957) 138kV line
17	Outage of the Mooreland (520999) to Taloga (521065) 138kV line
18	Outage of the Taloga (521065) to Dewey (514787) 138kV line
19	Outage of the Dewey (514787) to Southard (514822) 138kV line
20	Outage of the double ckts of the GEN-2008-047 Tap (580500) to Hitchland (523097) 345kV line
21	Outage of the Hitchland (523095) 230kV to Hitchland (523097) 345kV transformer
22	Outage of the Ninmile (521128) to Mooreland (520999) 138kV line
23	Outage of the Mathewson (560368) to Northwest (514880) 345kV line
24	Outage of the double ckts of Medicine Lodge (765342) to GEN-2007-025 Tap (532796) 345kV line
25	Outage of the Tatonga (515407) – Woodward (515375) 345kV line



**Table 5.3: Power Factor Requirements at the POI for Power Flow Contingencies in  
Table 5.2 for GEN-2011-019**

Cont. No.	Summer				Winter			
	P (MW)	Q (MVAR)	Power Factor		P (MW)	Q (MVAR)	Power Factor	
0	-299.0	133.7	91.29%	leading	-299.0	90.5	95.71%	leading
1	-299.0	105.8	94.27%	leading	-299.0	68.6	97.47%	leading
2	-299.0	86.6	96.06%	leading	-299.0	45.0	98.89%	leading
3	-299.0	99.4	94.90%	leading	-299.0	61.5	97.95%	leading
4	-299.0	79.6	96.63%	leading	-299.0	42.2	99.02%	leading
5	-299.0	128.7	91.86%	leading	-299.0	85.1	96.18%	leading
6	-299.0	103.8	94.47%	leading	-299.0	57.4	98.21%	leading
7	-299.0	133.4	91.33%	leading	-299.0	88.0	95.94%	leading
8	-299.0	133.5	91.31%	leading	-299.0	90.1	95.75%	leading
9	-299.0	133.7	91.29%	leading	-299.0	90.7	95.69%	leading
10	-299.0	132.6	91.41%	leading	-299.0	87.8	95.95%	leading
11	-299.0	130.9	91.61%	leading	-299.0	86.9	96.03%	leading
12	-299.0	130.3	91.67%	leading	-299.0	87.3	96.00%	leading
13	-299.0	133.7	91.29%	leading	-299.0	90.9	95.68%	leading
14	-299.0	118.9	92.92%	leading	-299.0	74.0	97.07%	leading
15	-299.0	115.7	93.27%	leading	-299.0	71.0	97.29%	leading
16	-299.0	132.2	91.46%	leading	-299.0	89.3	95.82%	leading
17	-299.0	132.2	91.46%	leading	-299.0	89.2	95.83%	leading
18	-299.0	133.3	91.33%	leading	-299.0	90.0	95.76%	leading
19	-299.0	111.1	93.74%	leading	-299.0	66.1	97.65%	leading
20	-299.0	123.7	92.40%	leading	-299.0	81.5	96.48%	leading
21	-299.0	129.3	91.79%	leading	-299.0	87.9	95.94%	leading
22	-299.0	113.1	93.53%	leading	-299.0	73.9	97.08%	leading
23	-299.0	131.1	91.59%	leading	-299.0	87.2	96.01%	leading
24	-299.0	138.5	90.74%	leading	-299.0	96.2	95.19%	leading
25	-299.0	41.3	99.06%	leading	-299.0	-27.7	99.57%	lagging



**Table 5.4: Power Factor Requirements at the POI for Power Flow Contingencies in  
 Table 5.2 for GEN-2011-020**

Cont. No.	Summer				Winter			
	P (MW)	Q (MVAR)	Power Factor		P (MW)	Q (MVAR)	Power Factor	
0	-299.0	133.7	91.29%	leading	-299.0	90.5	95.71%	leading
1	-299.0	105.8	94.27%	leading	-299.0	68.6	97.47%	leading
2	-299.0	86.6	96.06%	leading	-299.0	45.0	98.89%	leading
3	-299.0	99.4	94.90%	leading	-299.0	61.5	97.95%	leading
4	-299.0	79.6	96.63%	leading	-299.0	42.2	99.02%	leading
5	-299.0	128.7	91.86%	leading	-299.0	85.1	96.18%	leading
6	-299.0	103.8	94.47%	leading	-299.0	57.4	98.21%	leading
7	-299.0	133.4	91.33%	leading	-299.0	88.0	95.94%	leading
8	-299.0	133.5	91.31%	leading	-299.0	90.1	95.75%	leading
9	-299.0	133.7	91.29%	leading	-299.0	90.7	95.69%	leading
10	-299.0	132.6	91.41%	leading	-299.0	87.8	95.95%	leading
11	-299.0	130.9	91.61%	leading	-299.0	86.9	96.03%	leading
12	-299.0	130.3	91.67%	leading	-299.0	87.3	96.00%	leading
13	-299.0	133.7	91.29%	leading	-299.0	90.9	95.68%	leading
14	-299.0	118.9	92.92%	leading	-299.0	74.0	97.07%	leading
15	-299.0	115.7	93.27%	leading	-299.0	71.0	97.29%	leading
16	-299.0	132.2	91.46%	leading	-299.0	89.3	95.82%	leading
17	-299.0	132.2	91.46%	leading	-299.0	89.2	95.83%	leading
18	-299.0	133.3	91.33%	leading	-299.0	90.0	95.76%	leading
19	-299.0	111.1	93.74%	leading	-299.0	66.1	97.65%	leading
20	-299.0	123.7	92.40%	leading	-299.0	81.5	96.48%	leading
21	-299.0	129.3	91.79%	leading	-299.0	87.9	95.94%	leading
22	-299.0	113.1	93.53%	leading	-299.0	73.9	97.08%	leading
23	-299.0	131.1	91.59%	leading	-299.0	87.2	96.01%	leading
24	-299.0	138.5	90.74%	leading	-299.0	96.2	95.19%	leading
25	-299.0	41.3	99.06%	leading	-299.0	-27.7	99.57%	lagging





**Table 5.5: Power Factor Requirements at the POI for Power Flow Contingencies in  
 Table 5.2 for GEN-2011-024**

Cont. No.	Summer				Winter			
	P (MW)	Q (MVAR)	Power Factor		P (MW)	Q (MVAR)	Power Factor	
0	-299.0	-358.0	64.10%	lagging	-299.0	-443.8	55.87%	lagging
1	-299.0	-375.2	62.32%	lagging	-299.0	-448.0	55.51%	lagging
2	-299.0	-331.1	67.02%	lagging	-299.0	-417.1	58.26%	lagging
3	-299.0	-363.4	63.54%	lagging	-299.0	-445.1	55.76%	lagging
4	-299.0	-432.6	56.86%	lagging	-299.0	-536.9	48.65%	lagging
5	-299.0	-354.3	64.49%	lagging	-299.0	-439.9	56.21%	lagging
6	-299.0	-448.7	55.45%	lagging	-299.0	-542.4	48.28%	lagging
7	-299.0	-397.4	60.12%	lagging	-299.0	-460.2	54.48%	lagging
8	-299.0	-360.6	63.83%	lagging	-299.0	-446.1	55.68%	lagging
9	-299.0	-351.4	64.80%	lagging	-299.0	-435.1	56.64%	lagging
10	-299.0	-375.5	62.29%	lagging	-299.0	-467.3	53.90%	lagging
11	-299.0	-361.0	63.79%	lagging	-299.0	-446.9	55.61%	lagging
12	-299.0	-371.9	62.66%	lagging	-299.0	-465.4	54.05%	lagging
13	-299.0	-358.7	64.03%	lagging	-299.0	-445.8	55.70%	lagging
14	-299.0	-361.8	63.70%	lagging	-299.0	-448.2	55.50%	lagging
15	-299.0	-386.8	61.16%	lagging	-299.0	-475.0	53.27%	lagging
16	-299.0	-357.2	64.19%	lagging	-299.0	-442.4	56.00%	lagging
17	-299.0	-359.3	63.97%	lagging	-299.0	-445.0	55.77%	lagging
18	-299.0	-357.9	64.11%	lagging	-299.0	-443.9	55.87%	lagging
19	-299.0	-382.7	61.57%	lagging	-299.0	-469.9	53.68%	lagging
20	-299.0	-359.4	63.96%	lagging	-299.0	-441.5	56.07%	lagging
21	-299.0	-367.9	63.07%	lagging	-299.0	-447.5	55.56%	lagging
22	-299.0	-380.6	61.78%	lagging	-299.0	-464.0	54.17%	lagging
23	-299.0	-356.8	64.23%	lagging	-299.0	-438.5	56.34%	lagging
24	-299.0	-415.6	58.40%	lagging	-299.0	-515.5	50.17%	lagging
25	-299.0	-54.1	98.40%	lagging	-299.0	-70.3	97.35%	lagging



The power factor required to maintain a voltage schedule at the POI of 1.0 per unit voltage in accordance with SPP requirements for each of the power flow contingencies in Table 5.2 is listed in Tables 5.3 through 5.5. Wind farms are not typically required according to FERC 661-A to operate at the POI beyond a power factor range of  $\pm 95\%$  for voltages from 95 to 105% of nominal. To deliver additional capacitive reactive power in order to meet the schedule at the POI of 1.0 per unit voltage, external sources of reactive power such as capacitor banks will be needed.

Power Factor analysis indicates the following. It is assumed that all the Group 1 and prior queued projects are in service at 100% output power there is no lagging power factor requirement for this project.

- GEN-2011-019 is required to maintain a power factor of 99.57% lagging to 95% leading at the POI.
- GEN-2011-020 is required to maintain a power factor of 99.57% lagging to 95% leading at the POI.
- GEN-2011-024 is required to maintain a power factor of 95% lagging up to unity power factor at the POI.

## 6. TRANSIENT STABILITY ANALYSIS

Transient stability analysis was performed for the fault contingencies in Table 6.1, which were specified by SPP. For the purpose of the transient stability analysis, each of the interconnection request projects was studied with 95% lagging power factor at the POI.

**Table 6.1: SPP fault contingencies**

Cont. No.	Cont. Name	Description
1	FLT01-3PH	3-phase fault on the Woodward (515375) to Border (525835) 345kV line, near Woodward. a. Apply fault at the Woodward 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
2	FLT02-1PH	<i>Single phase fault and sequence like previous</i>
3	FLT03-3PH	3-phase fault on the Woodward (515375) to Mooreland (560304) 345kV line, near Woodward. a. Apply fault at the Woodward 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
4	FLT04-1PH	<i>Single phase fault and sequence like previous</i>
5	FLT05-3PH	3-phase fault on one of the Woodward (515375) to GEN-2008-047 Tap (580500) 345kV lines, near Woodward. a. Apply fault at the Woodward 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
6	FLT06-1PH	<i>Single phase fault and sequence like previous</i>
7	FLT07-3PH	3-phase fault double circuit on the Woodward (515375) to Medicine Lodge (765342) 345kV lines, near Woodward. a. Apply double circuit fault at the Woodward 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
8	FLT08-1PH	<i>Single phase fault and sequence like previous</i>
9	FLT09-3PH	3-phase fault on one of the Woodward 345kV (515375) to 138kV (515376) transformer, near the 345 kV bus. a. Apply fault at the Woodward 345kV bus b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

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Cont. No.	Cont. Name	Description
10	FLT10-3PH	3-phase fault double circuit on the Tatonga (515407) to Mathewson (560368) 345kV line, near Tatonga. a. Apply double circuit fault at the Tatonga 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
11	FLT11-1PH	<i>Single phase fault and sequence like previous</i>
12	FLT12-3PH	3-phase fault on the Northwest (514880) to Spring Creek (514881) 345kV line, near Northwest. a. Apply fault at the Northwest 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
13	FLT13-1PH	<i>Single phase fault and sequence like previous</i>
14	FLT14-3PH	3-phase fault on the Northwest (514880) to Cimarron (514901) 345kV line, near Northwest. a. Apply fault at the Northwest 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
15	FLT15-1PH	<i>Single phase fault and sequence like previous</i>
16	FLT16-3PH	3-phase fault on Northwest 345kV (514880) to 138kV (514879) transformer T2, near the 345 kV bus. a. Apply fault at the Northwest 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
17	FLT17-3PH	3-phase fault on the Arcadia (514908) to Northwest (514880) 345kV line, near Arcadia. a. Apply fault at the Arcadia 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
18	FLT18-1PH	<i>Single phase fault and sequence like previous</i>
19	FLT19-3PH	3-phase fault on the Woodward EHV (515376) to Iodine (514796) 138kV line, near Woodward EHV. a. Apply fault at the Woodward EHV 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
20	FLT20-1PH	<i>Single phase fault and sequence like previous</i>
21	FLT21-3PH	3-phase fault on the Mathewson (560368) to Woodring (514715) 345kV line, near Woodring. a. Apply fault at the Woodring 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
22	FLT22-1PH	<i>Single phase fault and sequence like previous</i>

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Cont. No.	Cont. Name	Description
23	FLT23-3PH	3-phase fault on the Mathewson (560368) to Cimarron (514901) 345kV line, near Cimarron. a. Apply fault at the Cimarron 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
24	FLT24-1PH	<i>Single phase fault and sequence like previous</i>
25	FLT25-3PH	3-phase fault on the Mooreland (520999) to Windfarm (515785) 138kV line, near Mooreland. a. Apply fault at the Mooreland 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
26	FLT26-1PH	<i>Single phase fault and sequence like previous</i>
27	FLT27-3PH	3-phase fault on the Mooreland (520999) to Cedardale (520848) 138kV line, near Cedardale. a. Apply fault at Cedardale 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
28	FLT28-1PH	<i>Single phase fault and sequence like previous</i>
29	FLT29-3PH	3-phase fault on the Mooreland (520999) to Iodine (520957) 138kV line, near Iodine. a. Apply fault at Iodine 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
30	FLT30-1PH	<i>Single phase fault and sequence like previous</i>
31	FLT31-3PH	3-phase fault on the Mooreland (520999) to Taloga (521065) 138kV line, near Taloga. a. Apply fault at Taloga 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
32	FLT32-1PH	<i>Single phase fault and sequence like previous</i>
33	FLT33-3PH	3-phase fault on the Taloga (521065) to Dewey (514787) 138kV line, near Taloga. a. Apply fault at the Taloga 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
34	FLT34-1PH	<i>Single phase fault and sequence like previous</i>
35	FLT35-3PH	3-phase fault on the Dewey (514787) to Southard (514822) 138kV line, near Dewey. a. Apply fault at the Dewey 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
36	FLT36-1PH	<i>Single phase fault and sequence like previous</i>
37	FLT37-3PH	3-phase double circuit fault on the GEN-2008-047 Tap (580500) to Hitchland (523097) 345kV lines, near GEN-2008-047 Tap. a. Apply double circuit fault at the GEN-2008-047 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

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Cont. No.	Cont. Name	Description
38	FLT38-1PH	<i>Single phase fault and sequence like previous</i>
39	FLT39-3PH	3-phase fault on the Hitchland (523095) 230kV to Hitchland (523097) 345kV transformer, 230 kV bus. a. Apply fault at the Hitchland 230kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
40	FLT40-3PH	3-phase fault on the Ninmile (521128) to Mooreland (520999) 138kV line, near Ninmile. a. Apply fault at Ninmile 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
41	FLT41-1PH	<i>Single phase fault and sequence like previous</i>
42	FLT42-3PH	3-phase fault on the Mathewson (560368) to Northwest (514880) 345kV lines, near Northwest. a. Apply fault at the Northwest 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
43	FLT43-1PH	<i>Single phase fault and sequence like previous</i>
44	FLT44-3PH	3-phase fault on the Medicine Lodge (765342) to GEN-2007-025 Tap (532796) 345kV line, near Medicine Lodge, Ckts 1 and 2. a. Apply fault at Medicine Lodge 345kV Ckts 1 and 2. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
45	FLT45-3PH	3-phase fault on the Tatonga (515704) to Woodward (515375) 345kV line, near Tatonga. a. Apply fault at the 30% of the line from Tatonga 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Single line to ground faults were simulated in a manner consistent with currently accepted practices, that is to assume that a single line to ground will cause a voltage drop at the fault location of 60% of nominal.

The prior queued projects monitored are listed in Table 6.2.

**Table 6.2: Prior queued wind farm projects monitored**

Request	Size (MW)	Wind Turbine Model	Point of Interconnection
GEN-2001-014	94.5	Suzlon 2.1MW	Fort Supply 138kV (520920)
GEN-2001-037	102	GE 1.5MW	Woodward-Mooreland 138kV (515785)
GEN-2005-005	18.4	SMK 223	Moorland – Woodward 138kV (515785)
GEN-2005-008	120	GE 1.5MW	Woodward 138kV (514785)
GEN-2006-024S	18.9	Suzlon 2.1MW	Buffalo Bear 69kV (521120)
GEN-2006-046	132	Mitsubishi 2.4MW	Dewey 138kV (514787)
GEN-2007-006	161.7	Suzlon 2.1MW	Roman Nose 138kV (514823)
GEN-2007-021	200	GE 1.6MW	Tatonga 345kV (515407)
GEN-2007-044	299.2	GE 1.6MW	Tatonga 345kV (515407)
GEN-2007-050	175.2	Siemens 2.3MW	Woodward 138kV (515376)
GEN-2007-051	199.5	GE 1.5MW	Mooreland 138kV (520999)
GEN-2007-062	765	GE 1.5MW	Woodward 345kV (515375)
GEN-2008-003	101.2	Siemens 2.3MW	Woodward 138kV (515376)
GEN-2008-019	300	Mitsubishi 2.4MW	Tatonga 345kV (515407)
GEN-2008-029	250.5	GE 1.5MW	Woodward 138kV (515376)
GEN-2008-044	197.8	Siemens SWT 2.3MW	Tatonga 345kV (515407)
GEN-2010-008	64.4	Vestas V90 1.8MW	Fargo Jct 69kV (521196)
GEN-2010-011	29.7	Siemens SWT 2.3MW	Addition to Gen-2008-044 34.5kV bus (576503)
GEN-2010-043	320	GENROU	Mooreland 345kV (560304)

Table 6.3 lists voltage and frequency relay settings were used to evaluate fault ride-through capability of WTGs in transient stability analysis.

**Table 6.3: Siemens SWT 2.3 MW Protection Settings (PSS/E Model Version 1.3)**

Relay Type	Trip Setting	Time Setting (sec)
Undervoltage	0.85 (pu)	3.0
Undervoltage	0.40 (pu)	1.6
Undervoltage	0.15 (pu)	0.85
Overvoltage	1.2 (pu)	0.15
Overvoltage	1.10 (pu)	1.0
Underfrequency	57.0 (Hz)	10
Underfrequency	56.4 (Hz)	0.1
Overfrequency	62.4 (Hz)	0.1

## **6.1 Stability Criteria**

Disturbances including three-phase and single-phase to ground faults should not cause synchronous and asynchronous plants to become unstable or disconnect from the transmission grid.

The criterion for synchronous generator stability as defined by NERC is:

“Power system stability is defined as that condition in which the difference of the angular positions of synchronous machine rotor becomes constant following an aperiodic system disturbance.”

Voltage magnitudes and frequencies at terminals of asynchronous generators should not exceed magnitudes and durations that will cause protection elements to operate. Furthermore, the response after the disturbance needs to be studied at the terminals of the machine to insure that there are no sustained oscillations in power output, speed, frequency, etc.

Voltage magnitudes and angles after the disturbance should settle to a constant and acceptable operating level. Frequencies should settle to the nominal 60 Hz power frequency.

## **6.2 Transient Stability Results**

Undisturbed runs of 20 seconds were performed with the summer and winter peak cases to verify proper initialization of dynamic models.

Transient stability analysis indicates that Group 1 will successfully ride-through each N-1 fault contingency specified by SPP and the nearby areas will retain angular, frequency and voltage stability. Group 1 can successfully interconnect into the transmission system at the desired location without reduction in output power.

Double-circuit (N-2) contingencies incur catastrophic changes, which cannot be tolerated by the system in some occasions. In the current study the simulation does not converge in contingency #10 in the winter peak case. These contingencies include double-circuit (N-2) fault and enforce drastic changes to the network. Note that there are some drastic changes and oscillation issues in double-circuit (N-2) contingencies 7, 8, 10, 11, and 44. Also two prior-queued projects Gen-2007-006 and GEN-2006-046 are tripping off-line in double-



circuit contingencies 10 and 11 due to undervoltage protection. These cases are stable and no other generator trip if voltage-protection disabled for the aforementioned projects. These results are consistent with the original study results for Group 1 (please see Final report for DISIS-2011-001 issued on July 25, 2011 to SPP). These issues have been discussed with SPP previously and the decision is not to take any further action due to very-low possibility of the double-circuit contingencies to occur.

**Table 6.6: Summary of Transient Stability Results**

Cont. No.	Cont. Name	Summer Peak 2010/2011	Winter Peak 2010/2011
1	FLT01-3PH	STABLE	STABLE
2	FLT02-1PH	STABLE	STABLE
3	FLT03-3PH	STABLE	STABLE
4	FLT04-1PH	STABLE	STABLE
5	FLT05-3PH	STABLE	STABLE
6	FLT06-1PH	STABLE	STABLE
7	FLT07-3PH	STABLE	STABLE
8	FLT08-1PH	STABLE	STABLE
9	FLT09-3PH	STABLE	STABLE
10	FLT10-3PH	STABLE (GEN-2007-006 and GEN-2006-046 tripped)	Not Converged
11	FLT11-1PH	STABLE (GEN-2007-006 and GEN-2006-046 tripped)	STABLE (GEN-2007-006 and GEN-2006-046 tripped)
12	FLT12-3PH	STABLE	STABLE
13	FLT13-1PH	STABLE	STABLE
14	FLT14-3PH	STABLE	STABLE
15	FLT15-1PH	STABLE	STABLE
16	FLT16-3PH	STABLE	STABLE
17	FLT17-3PH	STABLE	STABLE
18	FLT18-1PH	STABLE	STABLE
19	FLT19-3PH	STABLE	STABLE
20	FLT20-1PH	STABLE	STABLE
21	FLT21-3PH	STABLE	STABLE
22	FLT22-1PH	STABLE	STABLE
23	FLT23-3PH	STABLE	STABLE
24	FLT24-1PH	STABLE	STABLE
25	FLT25-3PH	STABLE	STABLE
26	FLT26-1PH	STABLE	STABLE
27	FLT27-3PH	STABLE	STABLE
28	FLT28-1PH	STABLE	STABLE
29	FLT29-3PH	STABLE	STABLE
30	FLT30-1PH	STABLE	STABLE
31	FLT31-3PH	STABLE	STABLE
32	FLT32-1PH	STABLE	STABLE
33	FLT33-3PH	STABLE	STABLE

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Cont. No.	Cont. Name	Summer Peak 2010/2011	Winter Peak 2010/2011
34	FLT34-1PH	STABLE	STABLE
35	FLT35-3PH	STABLE	STABLE
36	FLT36-1PH	STABLE	STABLE
37	FLT37-3PH	STABLE	STABLE
38	FLT38-1PH	STABLE	STABLE
39	FLT39-3PH	STABLE	STABLE
40	FLT40-3PH	STABLE	STABLE
41	FLT41-1PH	STABLE	STABLE
42	FLT42-3PH	STABLE	STABLE
43	FLT43-1PH	STABLE	STABLE
44	FLT44-3PH	STABLE	STABLE
45	FLT45-3PH	STABLE	STABLE

## 7. CONCLUSIONS AND RECOMMENDATIONS

Group 1 and prior-queued projects in the Oklahoma Gas and Electric (OKGE) area were studied at 100% output power using 2010/2011 summer and winter peak loading cases provided by SPP.

The results of power factor analysis indicated that GEN-2011-024 is required to maintain power factor of 95% lagging up to unity power factor at the POI, while GEN-2011-019 and GEN-2011-020 and GEN-2011-024 are required to maintain a power factor of 99.57% lagging to 95% leading at the POI.

Transient analysis results indicate that definitive Impact Re-Study DISIS-2011-001-1 (Group 1) can successfully interconnect into the transmission system at 100% output power and at the desired location. Transient stability analysis indicated that Group 1 will ride-through each N-1 fault contingency specified by SPP and the nearby areas will retain angular, frequency and voltage stability. Note that there are some drastic changes and oscillation issues in double-circuit (N-2) contingencies 7, 8, 10, 11, and 44. Also two prior-queued projects Gen-2007-006 and GEN-2006-046 are tripping off-line in double-circuit contingencies 10 and 11 due to undervoltage protection. These cases are stable and no other generator trip if voltage-protection disabled for the aforementioned projects. These results are consistent with the original study results for Group 1 (please see Final report for DISIS-2011-001 issued on July 25, 2011 to SPP).

## **J: Stability Study for Group 2**

# SPP DISIS-2011-001 Group 2 Definitive Impact Re-Study

Draft Report for  
Southwest Power Pool

Prepared by:  
Excel Engineering, Inc.

November 9, 2011

Principal Contributors:

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## 0. Certification

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the Laws of the State of **Oklahoma** and **Texas**.

William Quaintance  
Oklahoma License Number: 24320  
Texas License Number: 104268

Excel Field Services, Inc.  
Oklahoma Firm License Number: 5844

Minnesota Excel Engineering, Inc.  
Texas Firm License Number: 7970

## 1. Background and Scope

The DISIS-2011-001 Group 2 Definitive Impact Restudy is a generation interconnection study performed by Excel Engineering, Inc. for its non-affiliated client, Southwest Power Pool (SPP). Its purpose is to study the impacts of interconnecting the projects shown in Table 1-1. The in-service date assumed for the generation addition was 2011.

**Table 1-1. Interconnection Requests Evaluated in this Study**

Request	Size (MW)	Wind Turbine Model	Point of Interconnection	POI Bus	Gen Buses
GEN-2011-012	104.5	GE 2.75MW	Tap on Moore County - Hitchland 230kV line	581116	581120
GEN-2011-014	201	Siemens 3.0MW	Tap on Hitchland to Woodward 345kV line	580500	581115
GEN-2011-021	299	Siemens 2.3MW	Tap on Hitchland to GEN-2008-047 Tap 345kV line	580507	581146 581147
GEN-2011-022	299	Siemens 2.3MW	Hitchland 345kV	523097	581153 581154
ASGI-2011-002	10	DeWind D8.2 2.0MW	Herring 115kV	523359	580123

The prior-queued requests shown in Table 1-2 were included in this study and dispatched at 100% of rated capacity.

The study included stability analysis of each proposed interconnection request. Contingencies that resulted in a prior-queued project tripping off-line, if any, were re-run with the prior-queued project's voltage and frequency tripping disabled. A power factor analysis was performed for the wind farms in Table 1-1.

ATC (Available Transfer Capability) studies were not performed as part of this study. These studies will be required at the time transmission service is actually requested. Additional transmission upgrades may be required based on that analysis.

Study assumptions in general have been based on Excel's knowledge of the electric power system and on the specific information and data provided by SPP. The accuracy of the conclusions contained within this study is sensitive to the assumptions made with respect to generation additions and transmission improvements being contemplated. Changes in the assumptions of the timing of other generation additions or transmission improvements will affect this study's conclusions.



**Table 1-2. Nearby Interconnection Requests Already in the Queue**

Request	Size	Wind Turbine Model	Point of Interconnection	POI Bus	Gen Buses
GEN-2002-008	240	GE 1.5MW	Hitchland 345kV	523097	579077 579078 579079
GEN-2002-009	79.8	Suzlon 2.1MW	Hansford 115kV	523195	579084
GEN-2003-020	159	GE 1.5 MW	Martin 115kV	523928	560845 560846
GEN-2005-017	339	GE 1.5 MW	Tap on Hitchland – Potter 345kV line	579118	579119 579120 579121
GEN-2006-020	20	D8.2 2.0MW	Tap on Hitchland – Sherman Tap 115kV line	523160	579138
GEN-2006-044	370	DeWind D9.2 2.0MW	Hitchland 345kV	523097	579367 579368 579369 579370
GEN-2006-049	399	GE 1.5 MW	Tap on Hitchland – Finney 345kV line	560029	560946 560947
GEN-2007-046	199.5	GE 1.5MW	Hitchland 115kV	523093	579298
GEN-2007-057	34.5	GE 1.5MW	Moore Co. East 115kV	523308	579350
GEN-2008-047	300	GE 1.5MW	Tap on Hitchland to Woodward 345kV line	580500	573506 573510
GEN-2010-001	300	Suzlon 2.1MW	Tap on Hitchland to Woodward 345kV line	580500	578545 578548
GEN-2010-007	73.8	Vestas V100 1.8MW	Tap on Riverside – Pringle 115kV line	575090	575094
ASGI-2010-011	48	GE 1.5MW	TC Texas Co 69kV	523089	579365
GEN-2010-014	358.8	Siemens SWT 2.3MW	Hitchland 345kV	523097	576400 576410

## **2. Executive Summary**

The DISIS-2011-001 Group 2 Definitive Impact Restudy evaluated the impacts of interconnecting the Table 1-1 study projects to the SPP transmission system.

No stability problems were found during summer or winter peak conditions due to the addition of these projects.

Final power factor for the study projects are listed in Table 4-2.

With the assumptions described in this report, the study projects should be able to connect without causing any stability problems on the SPP transmission grid.

Any change in system or wind farm models or assumptions could change these results.

### **3. Study Development and Assumptions**

#### **3.1 Simulation Tools**

The Siemens Power Technologies, Inc. PSS/E power system simulation program Version 30.3.3 was used in this study.

#### **3.2 Models Used**

SPP provided its latest stability database cases for both summer and winter peak seasons.

The model included the study and prior-queued projects.

Power flow one-line diagrams of the study projects in summer peak conditions are shown in Figure 3-1 through Figure 3-5. As the figures show, each wind farm model includes explicit representation of the radial transmission line, if any; the substation transformer(s) from transmission voltage to 34.5kV; and the substation reactive power device(s), if any. The remainder of each wind farm is represented by one or more lumped equivalents including a generator, a step-up transformer, and a collector system impedance, if any.

Steady-state and dynamic model data for the study plants are given in Appendix D.

No special modeling is required of line relays in these cases, except for the special modeling related to the wind-turbine tripping.

#### **3.3 Monitored Facilities**

All generators and transmission buses in Areas 520, 524, 525, 526, 531, 534, and 536 were monitored.

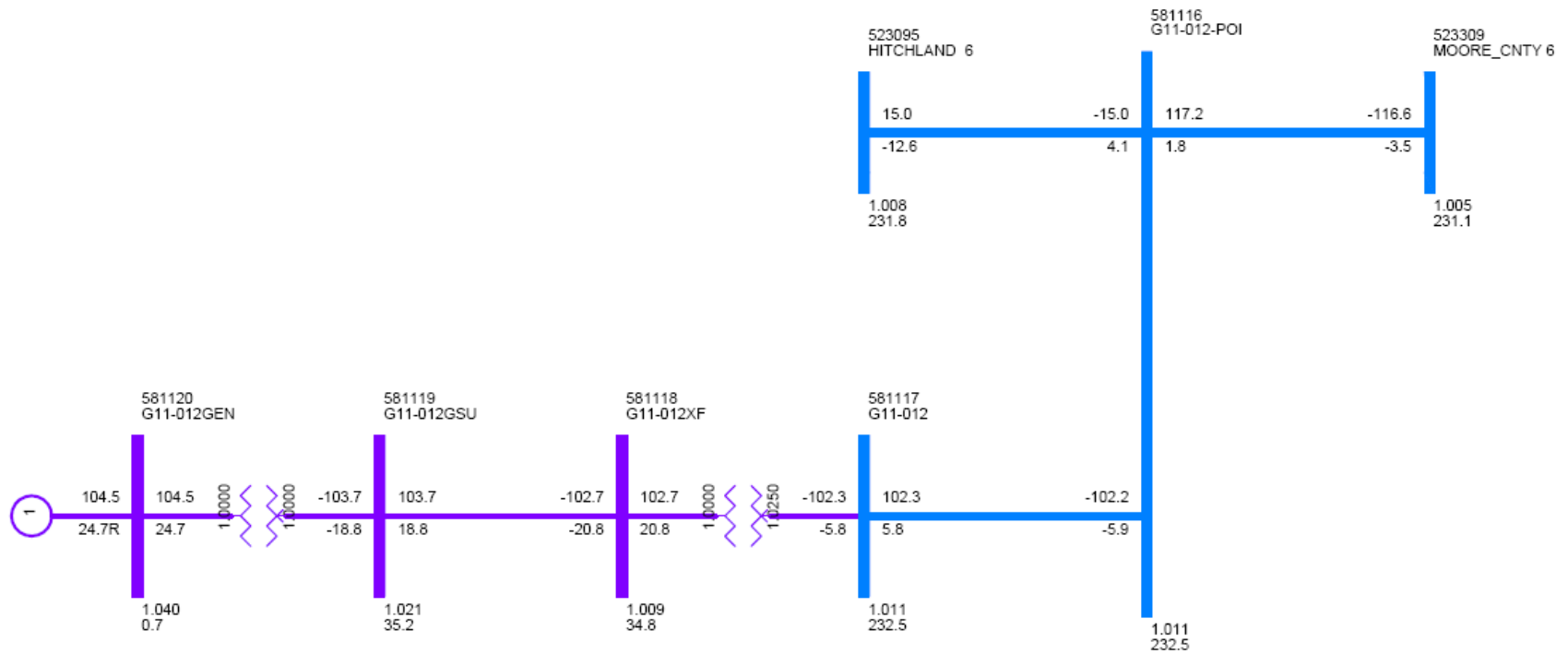


Figure 3-1. Power Flow One-line for GEN-2011-012 and adjacent equipment (SP)



SPP DISIS-2011-001 Group 2 Definitive Impact Restudy

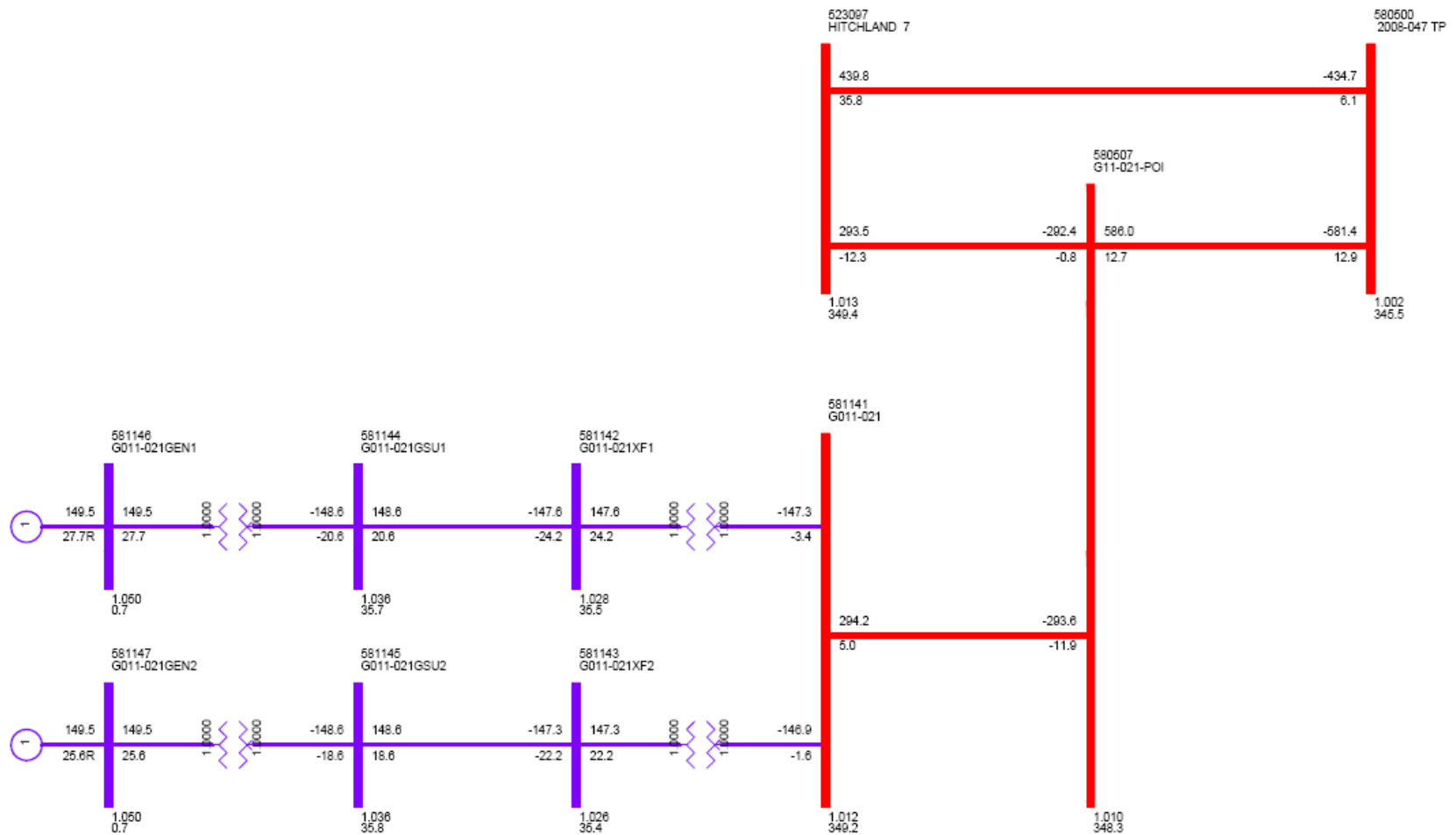


Figure 3-3. Power Flow One-line for GEN-2011-021 and adjacent equipment (SP)

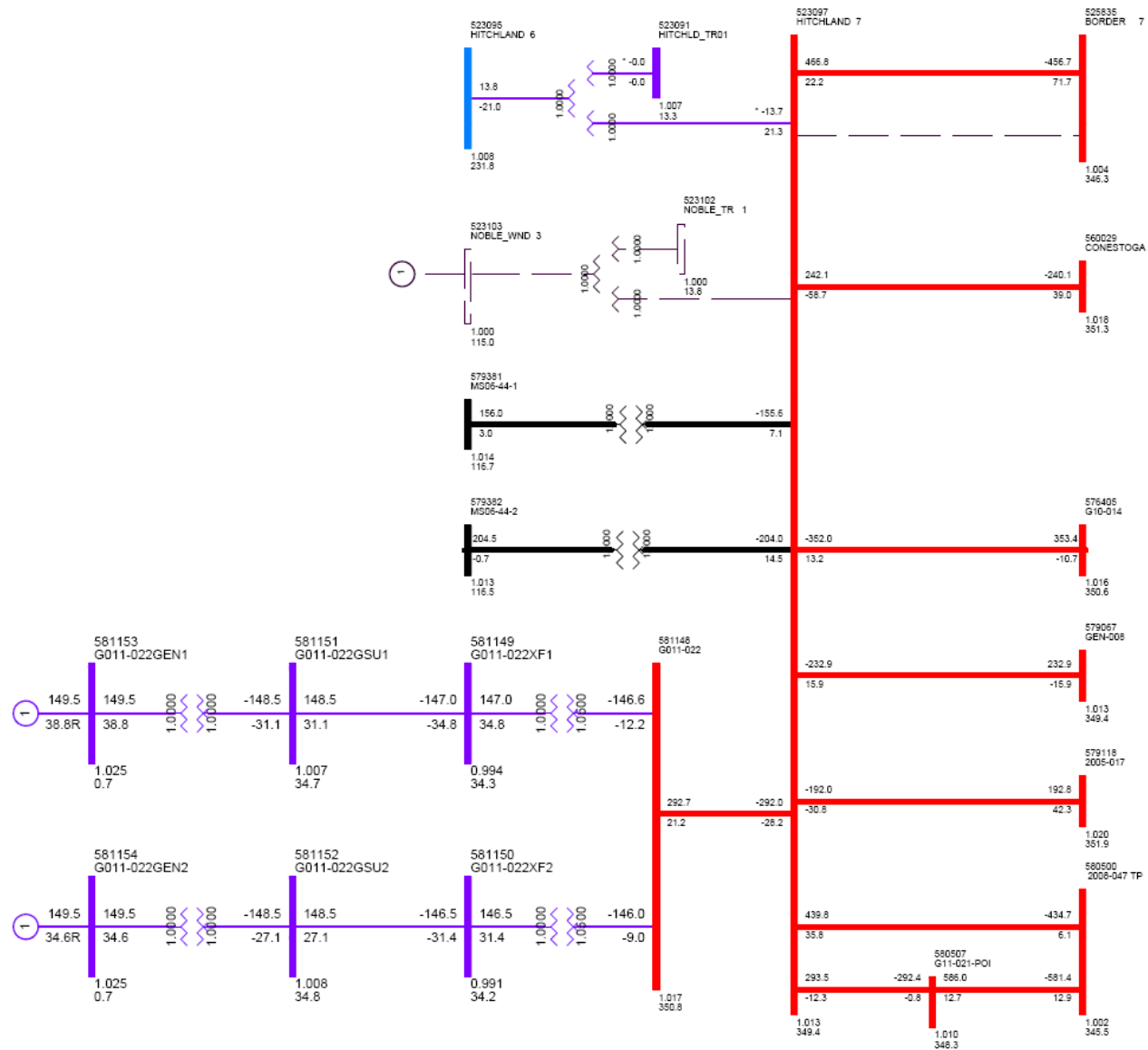


Figure 3-4. Power Flow One-line for GEN-2011-022 and adjacent equipment (SP)

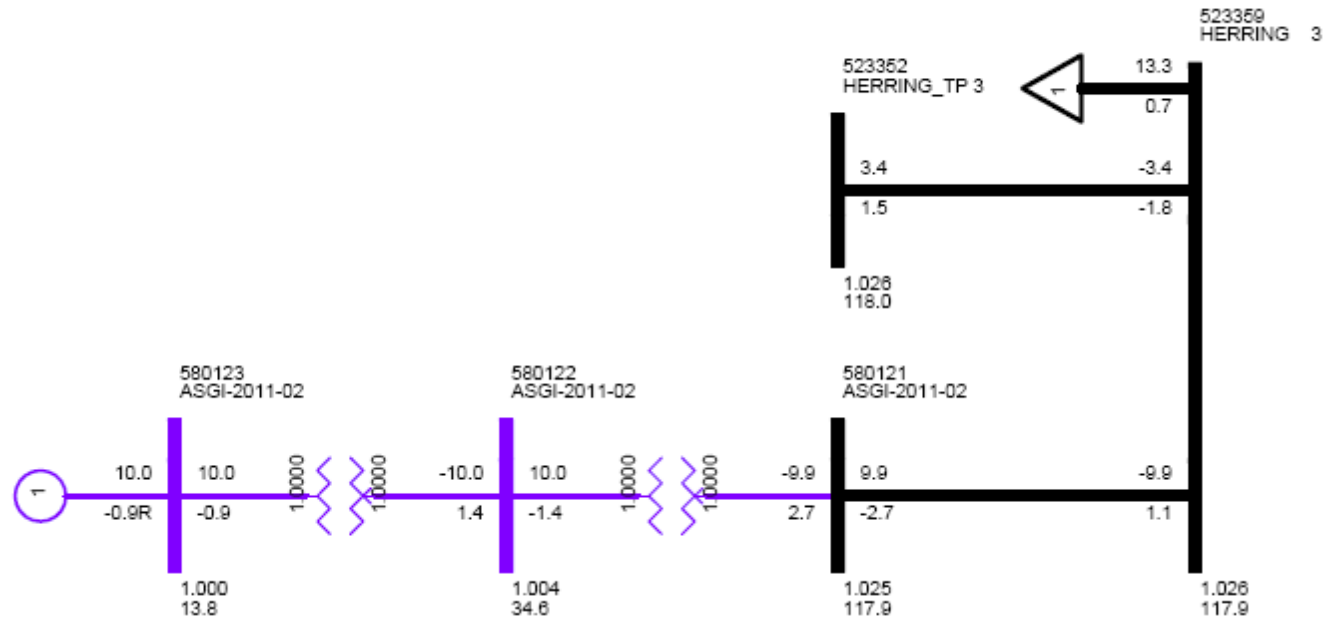


Figure 3-5. Power Flow One-line for ASGI-2011-002 and adjacent equipment (SP)



### **3.4 Performance Criteria**

Wind generators must comply with FERC Order 661A on low voltage ride through for wind farms. Therefore, the wind generators should not trip off line for faults for under voltage relay actuation. If a wind generator trips off line, an appropriately sized SVC or STATCOM device may need to be specified to keep the wind generator on-line for the fault. SPP was consulted to determine if the addition of an SVC or STATCOM is warranted for the specific condition.

Contingencies that resulted in a prior-queued project tripping off-line, if any, were re-run with the prior-queued project's voltage and frequency tripping disabled to check for stability issues.

### **3.5 Performance Evaluation Methods**

A power factor analysis was performed for all study projects that are wind farms. The power factor analysis consisted of modeling a var generator in each wind farm holding a voltage schedule at the POI. The voltage schedule was set to the higher of the voltage with the wind farm off-line or 1.0 per unit.

If the required power factor at the POI is beyond the capability of the studied wind turbines, then capacitor banks would be considered. Factors used in sizing capacitor banks would include two requirements of FERC Order 661A: the ability of the wind farm to ride through low voltage with and without capacitor banks and the ability of the wind farm to recover to pre-fault voltage. If a wind generator trips on high voltage, a leading power factor may be required.

ATC studies were not performed as part of this study. These studies will be required at the time transmission service is actually requested. Additional transmission facilities may be required based on subsequent ATC analysis.

Stability analysis was performed for each proposed interconnection request. Faults were simulated on transmission lines at the POIs and on other nearby transmission equipment. The faults in Table 3-1 were run for each case (three phase and single phase as noted).

**Table 3-1. Fault Definitions for DISIS-2001-001 GROUP 2 Impact Restudy**

Cont. No.	Cont. Name	Description
1	FLT01-3PH	3 phase fault on one of the Hitchland (523097) to Border (525835) 345 kV lines, at Hitchland (523097). a. Apply fault at the Hitchland 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
2	FLT02-1PH	Single phase fault on the line in previous a. Apply fault at the Hitchland 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
3	FLT03-3PH	3 phase fault on the Hitchland (523097) to Conestoga (560029) 345kV line, near Hitchland. a. Apply fault at the Hitchland 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
4	FLT04-1PH	Single phase fault on the line in previous a. Apply fault at the Hitchland 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
5	FLT05-3PH	3 phase fault on the Hitchland (523097) to GEN-2005-017 Tap (579118) 345kV line, near Hitchland. a. Apply fault at the Hitchland 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
6	FLT06-1PH	Single phase fault on the line in previous a. Apply fault at the Hitchland 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
7	FLT07-3PH	3 phase fault on one of the Gen-2008-047 Tap (580500) to Hitchland (523097) 345kV lines, near Gen-2008-047 Tap. a. Apply fault at the Gen-2008-047 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
8	FLT08-1PH	Single phase fault on the line in previous a. Apply fault at the Gen-2008-047 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
9	FLT09-3PH	3 phase fault on the Hitchland 230kV (523095) to 345kV (523097) transformer, near the 230kV bus. a. Apply fault at the Hitchland 230kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
10	FLT10-3PH	3 phase fault on the GEN-2011-012 Tap (581116) to Hitchland (523095) 230kV near GEN-2011-012 Tap. a. Apply fault at the GEN-2011-012 Tap 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
11	FLT11-1PH	<i>Single phase fault and sequence like previous</i>

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Cont. No.	Cont. Name	Description
12	FLT12-3PH	3 phase fault on the GEN-2011-012 Tap (581116) to Moore Co (523309) 230kV near GEN-2011-012 Tap. a. Apply fault at the GEN-2011-012 Tap 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
13	FLT13-1PH	<i>Single phase fault and sequence like previous</i>
14	FLT14-3PH	3 phase fault on one of the Gen-2008-047 Tap (580500) to Woodward (515375) 345kV lines, near Gen-2008-047 Tap. a. Apply fault at the Gen-2008-047 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
15	FLT15-1PH	Single phase fault on the line in previous a. Apply fault at the Gen-2008-047 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
16	FLT16-3PH	3 phase fault on the Gen-2008-047 Tap (580500) to GEN-2007-040 Tap (531000) 345kV line, near Gen-2008-047 Tap. a. Apply fault at the Gen-2008-047 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
17	FLT17-1PH	Single phase fault on the line in previous a. Apply fault at the Gen-2008-047 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
18	FLT18-3PH	3 phase fault on the GEN-2005-017 Tap (579118) to Potter Co. (523961) 345kV line, near GEN-2005-017 Tap. a. Apply fault at the GEN-2005-017 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
19	FLT19-1PH	Single phase fault on the line in previous a. Apply fault at the GEN-2005-017 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
20	FLT20-3PH	3 phase fault on the Potter Co (523959) to Moore Co. (523309) 230kV line, near Potter Co. a. Apply fault at the Potter Co. 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
21	FLT21-1PH	<i>Single phase fault and sequence like previous</i>
22	FLT22-3PH	3 phase fault on the Pringle (523267) to Harrington (523979) 230kV line, near Pringle. a. Apply fault at the Pringle 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
23	FLT23-1PH	<i>Single phase fault and sequence like previous</i>
24	FLT24-3PH	3 phase fault on the Conestoga (560029) to Finney (523853) 345kV line, near Conestoga. a. Apply fault at the Conestoga 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line

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Cont. No.	Cont. Name	Description
25	FLT25-1PH	Single phase fault on the line in previous a. Apply fault at the Conestoga 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
26	FLT26-3PH	3 phase fault on the Holcomb (531449) to Setab (531465) 345kV line, near Holcomb. a. Apply fault at the Holcomb 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
27	FLT27-1PH	<i>Single phase fault and sequence like previous</i>
30	FLT30-3PH	3 phase fault on the DWS Frisco (523160) to Lasley (523175) 115kV line, near DWS Frisco. a. Apply fault at the DWS Frisco 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line (all segments listed above). c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
31	FLT31-1PH	<i>Single phase fault and sequence like previous</i>
32	FLT32-3PH	3 phase fault on the Hitchland 115kV (523093) to 230kV (523095) transformer, near the 115 kV bus. a. Apply fault at the Hitchland 115kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
33	FLT33-3PH	3 phase fault on the Pringle (523266) to Spearman (523186) 115kV line #1, near Pringle. a. Apply fault at the Pringle 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
34	FLT34-1PH	<i>Single phase fault and sequence like previous</i>
35	FLT35-3PH	3 phase fault on the Moore Co. East 115kV (523308) to 230kV (523309) transformer, near the 115 kV bus. a. Apply fault at the Moore Co. East 115kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
36	FLT36-3PH	3 phase fault on the Spearman (523186) to Spearman Sub (523203) 115kV line, near Spearman. a. Apply fault at the Spearman 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
37	FLT37-1PH	<i>Single phase fault and sequence like previous</i>
38	FLT38-3PH	3 phase fault on the Texas Co. 115kV phase shifting transformer (523090 to 523106), near the main 115 kV bus. a. Apply fault at the main Texas Co. 115kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
39	FLT39-3PH	3 phase fault on the Pringle 115kV (523266) to Pringle 230kV (523267) transformer near the 115 kV bus. a. Apply fault at the Pringle 115kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.

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Cont. No.	Cont. Name	Description
40	FLT40-3PH	3 phase fault on the Riverview (523377) to Herring Tap (523352) 115kV line, near Riverview. a. Apply fault at the Riverview 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
41	FLT41-1PH	<i>Single phase fault and sequence like previous</i>
42	FLT42-3PH	3 phase fault on the Hutchison 115kV (523546) to the Hutchison 230kV (523551) transformer near the 115 kV bus. a. Apply fault at the Hutchison 115kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
43	FLT43-3PH	3 phase fault on the Border (525835) to Woodward (515375) 345 kV line, at Border (525835). a. Apply fault at Border 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
44	FLT44-1PH	Single phase fault on the line in previous a. Apply fault at the Border 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
45	FLT45-3PH	3 phase fault on one of the Finney (523853) to Holcomb (531449) 345kV lines, near Finney. a. Apply fault at the Finney 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
46	FLT46-1PH	Single phase fault on the line in previous a. Apply fault at the Finney 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
47	FLT47-3PH	3 phase fault on the Tatonga (515407) to Woodward (515375) 345kV line, near Woodward 345kV bus. a. Apply fault at the Woodward 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
48	FLT48-3PH	3 phase fault on the Herring Tap (523352) to Riverview (523377) 115kV line, near Herring Tap 115kV bus. a. Apply fault at the Herring Tap 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
49	FLT49-1PH	<i>Single phase fault and sequence like previous</i>
50	FLT50-3PH	3 phase fault on the Herring Tap (523352) to RB-Sneed (523366) 115kV line, near Herring Tap 115kV bus. a. Apply fault at the Herring Tap 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
51	FLT51-1PH	<i>Single phase fault and sequence like previous</i>
52	FLT52-3PH	3 phase fault on the Gen-2011-021 Tap (580507) to Hitchland (523097) 345kV line, near Gen-2011-021 Tap. a. Apply fault at the Gen-2011-021 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

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Cont. No.	Cont. Name	Description
53	FLT53-1PH	Single phase fault on the Gen-2011-021 Tap (580507) to Hitchland (523097) 345kV line, near Gen-2011-021 Tap. a. Apply fault at the Gen-2011-021 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
54	FLT54-3PH	3 phase fault on the Gen-2011-021 Tap (580507) to Gen-2008-047 Tap (580500) 345kV line, near Gen-2011-021 Tap. a. Apply fault at the Gen-2011-021 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
55	FLT55-1PH	Single phase fault on the Gen-2011-021 Tap (580507) to Gen-2008-047 Tap (580500) 345kV line, near Gen-2011-021 Tap. a. Apply fault at the Gen-2011-021 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
56	FLT56-3PH	3 phase fault on the Gen-2008-047 Tap (580500) to Gen-2011-021 Tap (580507) 345kV line, near Gen-2008-047 Tap. a. Apply fault at the Gen-2008-047 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
57	FLT57-1PH	Single phase fault on the Gen-2008-047 Tap (580500) to Gen-2011-021 Tap (580507) 345kV line, near Gen-2008-047 Tap. a. Apply fault at the Gen-2008-047 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
59	FLT59-3PH	3 phase fault on both of the Gen-2008-047 Tap (580500) to Woodward (515375) 345kV lines, near Gen-2008-047 Tap. a. Apply fault at the Gen-2008-047 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted lines.
60	FLT60-3PH	3 phase fault on both of the Gen-2008-047 Tap (580500) to Hitchland (523097) 345kV line and the GEN-2008-047 Tap (580500) to GEN-2011-021 Tap (580507), near Gen-2008-047 Tap. a. Apply fault at the Gen-2008-047 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted lines.
61	FLT61-3PH	3 phase fault on both of the Gen-2011-021 Tap (580507) to Hitchland (523097) 345kV line and the Gen-2008-047 Tap (580500) to Hitchland (523097) 345kV line, near Gen-2011-021 Tap. a. Apply fault at the Gen-2011-021 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted lines.
62	FLT62-3PH	3 phase fault on both of the Gen-2011-021 Tap (580507) to Gen-2008-047 Tap (580500) 345kV line and the Gen-2008-047 Tap (580500) to Hitchland (523097) 345kV line, near Gen-2011-021 Tap. a. Apply fault at the Gen-2011-021 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted lines.

## 4. Results and Observations

### 4.1 Stability Analysis Results

Table 4-1 summarizes the results. Figure 4-1 through Figure 4-10 show representative summer peak season plots for faults at the POI's of the study projects. Complete sets of plots for both summer and winter peak seasons for each fault and each project are included in Appendices A and B.

The system remains stable for all simulated faults. The study projects and the prior-queued projects stay on-line and are stable for all simulated faults.

**Table 4-1. Summary of Stability Results**

Cont. No.	Cont. Name	Description	Summer Peak Results	Winter Peak Results
1	FLT01-3PH	3 phase fault on one of the Hitchland (523097) to Border (525835) 345 kV lines, at Hitchland (523097).	OK	OK
2	FLT02-1PH	Single phase fault on the line in previous	OK	OK
3	FLT03-3PH	3 phase fault on the Hitchland (523097) to Conestoga (560029) 345kV line, near Hitchland.	OK	OK
4	FLT04-1PH	Single phase fault on the line in previous	OK	OK
5	FLT05-3PH	3 phase fault on the Hitchland (523097) to GEN-2005-017 Tap (579118) 345kV line, near Hitchland.	OK	OK
6	FLT06-1PH	Single phase fault on the line in previous	OK	OK
7	FLT07-3PH	3 phase fault on one of the Gen-2008-047 Tap (580500) to Hitchland (523097) 345kV lines, near Gen-2008-047 Tap.	OK	OK
8	FLT08-1PH	Single phase fault on the line in previous	OK	OK
9	FLT09-3PH	3 phase fault on the Hitchland 230kV (523095) to 345kV (523097) transformer, near the 230kV bus.	OK	OK
10	FLT10-3PH	3 phase fault on the GEN-2011-012 Tap (581116) to Hitchland (523095) 230kV near GEN-2011-012 Tap.	OK	OK
11	FLT11-1PH	<i>Single phase fault and sequence like previous</i>	OK	OK
12	FLT12-3PH	3 phase fault on the GEN-2011-012 Tap (581116) to Moore Co (523309) 230kV near GEN-2011-012 Tap.	OK	OK
13	FLT13-1PH	<i>Single phase fault and sequence like previous</i>	OK	OK
14	FLT14-3PH	3 phase fault on one of the Gen-2008-047 Tap (580500) to Woodward (515375) 345kV lines, near Gen-2008-047 Tap.	OK	OK
15	FLT15-1PH	Single phase fault on the line in previous	OK	OK
16	FLT16-3PH	3 phase fault on the Gen-2008-047 Tap (580500) to GEN-2007-040 Tap (531000) 345kV line, near Gen-2008-047 Tap.	OK	OK
17	FLT17-1PH	Single phase fault on the line in previous	OK	OK
18	FLT18-3PH	3 phase fault on the GEN-2005-017 Tap (579118) to Potter Co. (523961) 345kV line, near GEN-2005-017 Tap.	OK	OK

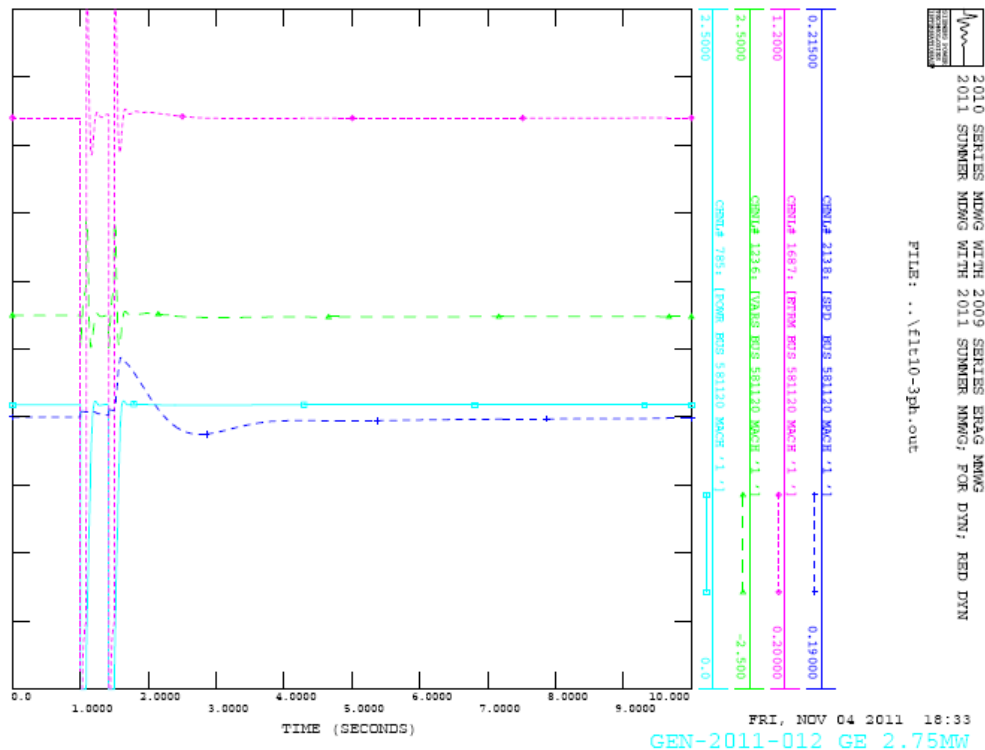
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Cont. No.	Cont. Name	Description	Summer Peak Results	Winter Peak Results
19	FLT19-1PH	Single phase fault on the line in previous	OK	OK
20	FLT20-3PH	3 phase fault on the Potter Co (523959) to Moore Co. (523309) 230kV line, near Potter Co.	OK	OK
21	FLT21-1PH	<i>Single phase fault and sequence like previous</i>	OK	OK
22	FLT22-3PH	3 phase fault on the Pringle (523267) to Harrington (523979) 230kV line, near Pringle.	OK	OK
23	FLT23-1PH	<i>Single phase fault and sequence like previous</i>	OK	OK
24	FLT24-3PH	3 phase fault on the Conestoga (560029) to Finney (523853) 345kV line, near Conestoga.	OK	OK
25	FLT25-1PH	Single phase fault on the line in previous	OK	OK
26	FLT26-3PH	3 phase fault on the Holcomb (531449) to Setab (531465) 345kV line, near Holcomb.	OK	OK
27	FLT27-1PH	<i>Single phase fault and sequence like previous</i>	OK	OK
30	FLT30-3PH	3 phase fault on the DWS Frisco (523160) to Lasley (523175) 115kV line, near DWS Frisco.	OK	OK
31	FLT31-1PH	<i>Single phase fault and sequence like previous</i>	OK	OK
32	FLT32-3PH	3 phase fault on the Hitchland 115kV (523093) to 230kV (523095) transformer, near the 115 kV bus.	OK	OK
33	FLT33-3PH	3 phase fault on the Pringle (523266) to Spearman (523186) 115kV line #1, near Pringle.	OK	OK
34	FLT34-1PH	<i>Single phase fault and sequence like previous</i>	OK	OK
35	FLT35-3PH	3 phase fault on the Moore Co. East 115kV (523308) to 230kV (523309) transformer, near the 115 kV bus.	OK	OK
36	FLT36-3PH	3 phase fault on the Spearman (523186) to Spearman Sub (523203) 115kV line, near Spearman.	OK	OK
37	FLT37-1PH	<i>Single phase fault and sequence like previous</i>	OK	OK
38	FLT38-3PH	3 phase fault on the Texas Co. 115kV phase shifting transformer (523090 to 523106), near the main 115 kV bus.	OK	OK
39	FLT39-3PH	3 phase fault on the Pringle 115kV (523266) to Pringle 230kV (523267) transformer near the 115 kV bus.	OK	OK
40	FLT40-3PH	3 phase fault on the Riverview (523377) to Herring Tap (523352) 115kV line, near Riverview.	OK	OK
41	FLT41-1PH	<i>Single phase fault and sequence like previous</i>	OK	OK
42	FLT42-3PH	3 phase fault on the Hutchison 115kV (523546) to the Hutchison 230kV (523551) transformer near the 115 kV bus.	OK	OK
43	FLT43-3PH	3 phase fault on the Border (525835) to Woodward (515375) 345 kV line, at Border (525835).	OK	OK
44	FLT44-1PH	Single phase fault on the line in previous	OK	OK
45	FLT45-3PH	3 phase fault on one of the Finney (523853) to Holcomb (531449) 345kV lines, near Finney.	OK	OK
46	FLT46-1PH	Single phase fault on the line in previous	OK	OK
47	FLT47-3PH	3 phase fault on the Tatonga (515407) to Woodward (515375) 345kV line, near Woodward 345kV bus.	OK	OK

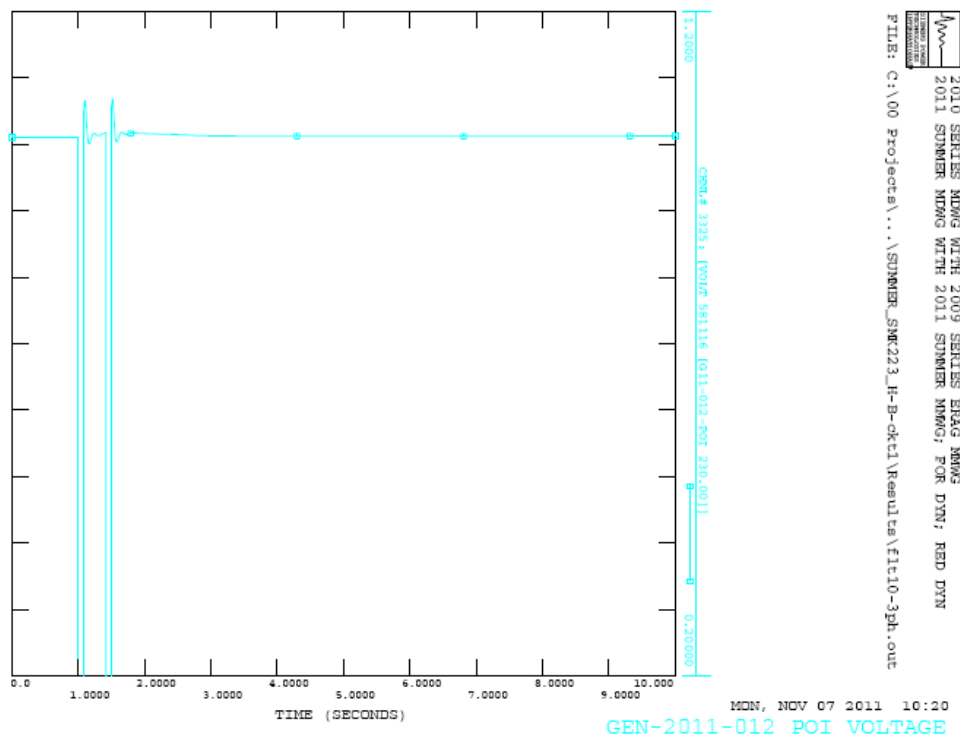


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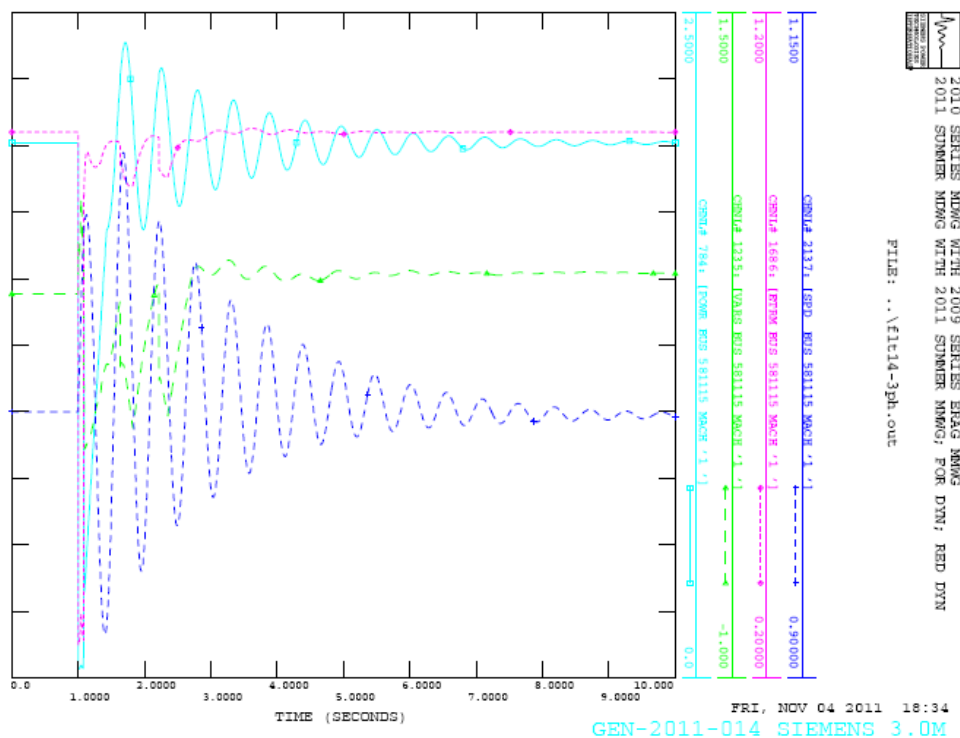
Cont. No.	Cont. Name	Description	Summer Peak Results	Winter Peak Results
48	FLT48-3PH	3 phase fault on the Herring Tap (523352) to Riverview (523377) 115kV line, near Herring Tap 115kV bus.	OK	OK
49	FLT49-1PH	<i>Single phase fault and sequence like previous</i>	OK	OK
50	FLT50-3PH	3 phase fault on the Herring Tap (523352) to RB-Sneed (523366) 115kV line, near Herring Tap 115kV bus.	OK	OK
51	FLT51-1PH	<i>Single phase fault and sequence like previous</i>	OK	OK
52	FLT52-3PH	3 phase fault on the Gen-2011-021 Tap (580507) to Hitchland (523097) 345kV line, near Gen-2011-021 Tap.	OK	OK
53	FLT53-1PH	Single phase fault on the Gen-2011-021 Tap (580507) to Hitchland (523097) 345kV line, near Gen-2011-021 Tap.	OK	OK
54	FLT54-3PH	3 phase fault on the Gen-2011-021 Tap (580507) to Gen-2008-047 Tap (580500) 345kV line, near Gen-2011-021 Tap.	OK	OK
55	FLT55-1PH	Single phase fault on the Gen-2011-021 Tap (580507) to Gen-2008-047 Tap (580500) 345kV line, near Gen-2011-021 Tap.	OK	OK
56	FLT56-3PH	3 phase fault on the Gen-2008-047 Tap (580500) to Gen-2011-021 Tap (580507) 345kV line, near Gen-2008-047 Tap.	OK	OK
57	FLT57-1PH	Single phase fault on the Gen-2008-047 Tap (580500) to Gen-2011-021 Tap (580507) 345kV line, near Gen-2008-047 Tap.	OK	OK
59	FLT59-3PH	3 phase fault on both of the Gen-2008-047 Tap (580500) to Woodward (515375) 345kV lines, near Gen-2008-047 Tap.	OK	OK
60	FLT60-3PH	3 phase fault on both of the Gen-2008-047 Tap (580500) to Hitchland (523097) 345kV line and the GEN-2008-047 Tap (580500) to GEN-2011-021 Tap (580507), near Gen-2008-047 Tap.	OK	OK
61	FLT61-3PH	3 phase fault on both of the Gen-2011-021 Tap (580507) to Hitchland (523097) 345kV line and the Gen-2008-047 Tap (580500) to Hitchland (523097) 345kV line, near Gen-2011-021 Tap.	OK	OK
62	FLT62-3PH	3 phase fault on both of the Gen-2011-021 Tap (580507) to Gen-2008-047 Tap (580500) 345kV line and the Gen-2008-047 Tap (580500) to Hitchland (523097) 345kV line, near Gen-2011-021 Tap.	OK	OK



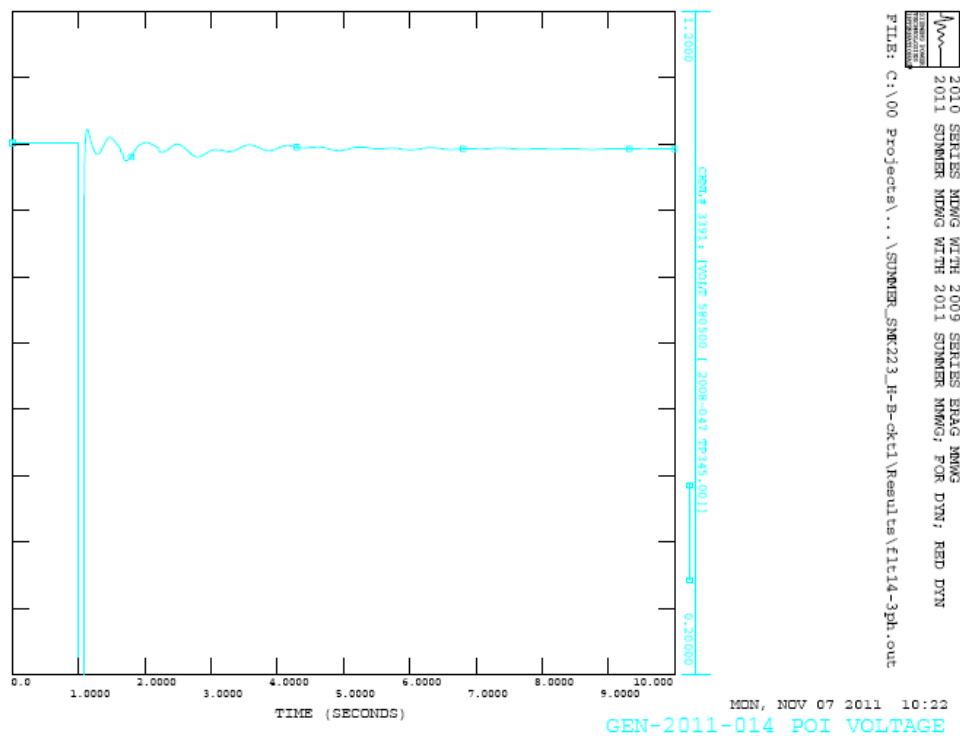
**Figure 4-1. GEN-2011-012 Plot for Fault 10 – 3-Phase fault on the GEN-2011-012 Tap (581116) to Hitchland (523095) 230kV line, near GEN-2011-012 Tap**



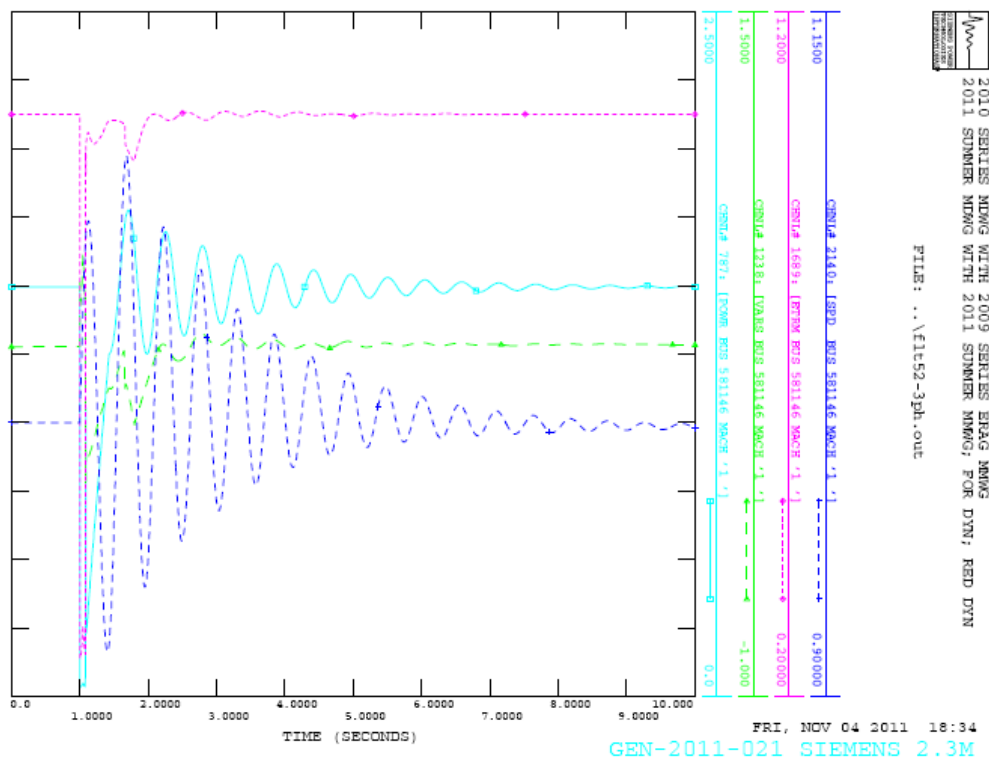
**Figure 4-2. POI Voltages for Fault 10 – 3-Phase fault on the GEN-2011-012 Tap (581116) to Hitchland (523095) 230kV line, near GEN-2011-012 Tap**



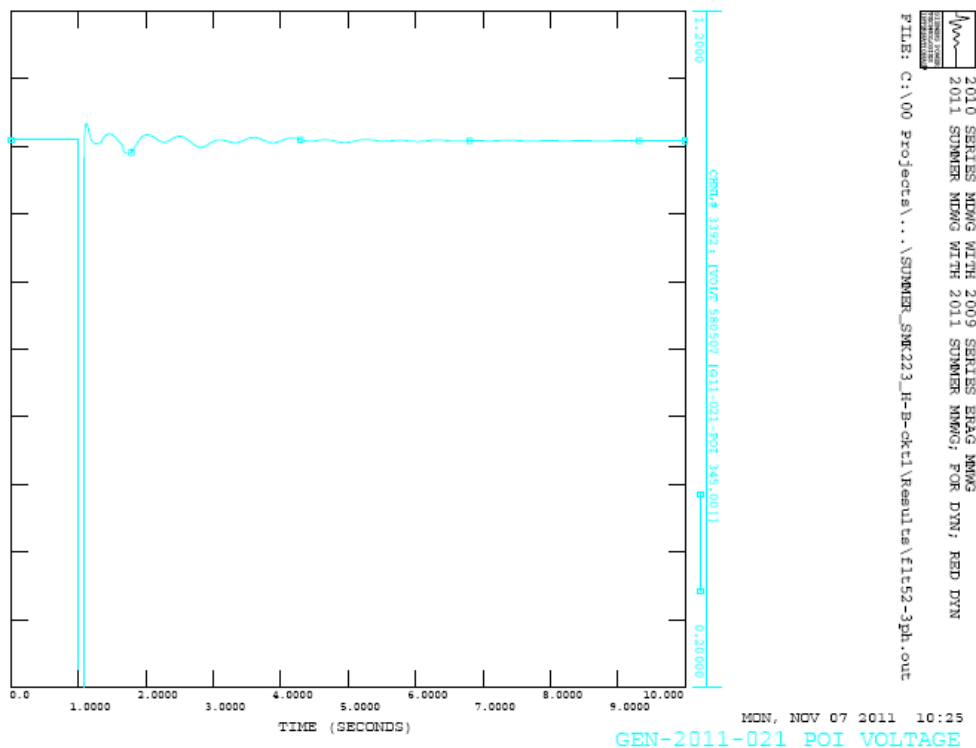
**Figure 4-3. GEN-2011-014 Plot for Fault 14 – 3-Phase fault on one of the Gen-2008-047 Tap (580500) to Woodward (515375) 345kV lines, near Gen-2008-047 Tap**



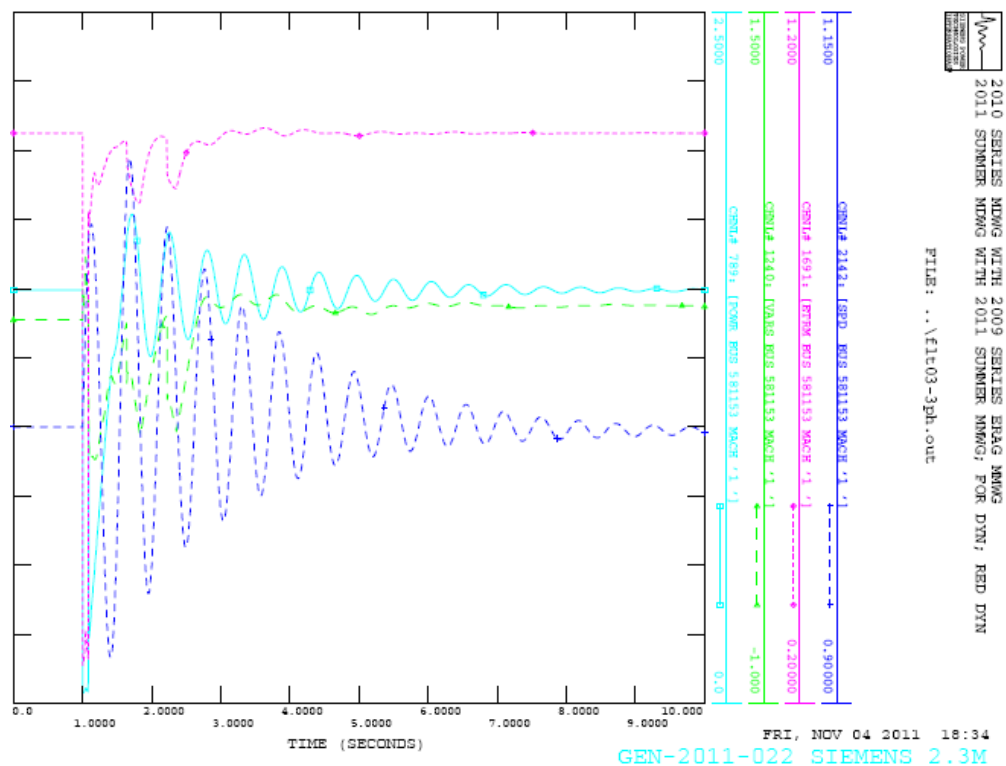
**Figure 4-4. POI Voltages for Fault 14 – 3-Phase fault on one of the Gen-2008-047 Tap (580500) to Woodward (515375) 345kV lines, near Gen-2008-047 Tap**



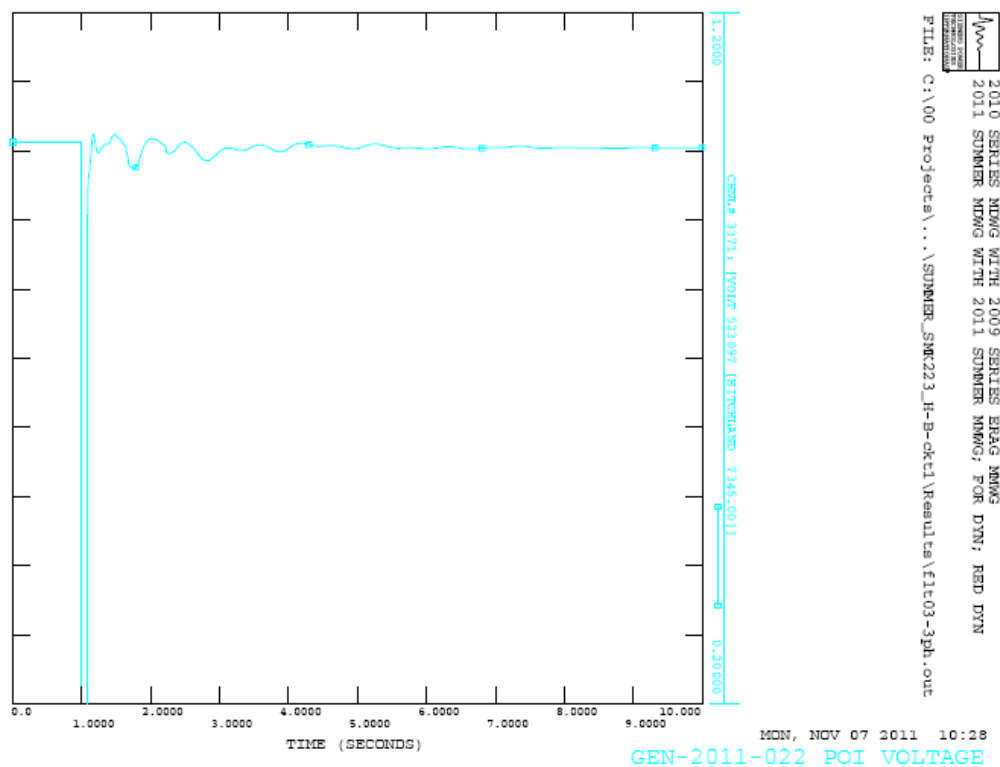
**Figure 4-5. GEN-2011-021 Plot for Fault 52 – 3-Phase fault on the Gen-2011-021 Tap (580507) to Hitchland (523097) 345kV line, near Gen-2011-021 Tap**



**Figure 4-6. POI Voltages for Fault 52 – 3-Phase fault on the Gen-2011-021 Tap (580507) to Hitchland (523097) 345kV line, near Gen-2011-021 Tap**



**Figure 4-7. GEN-2011-022 Plot for Fault 3 – 3 phase fault on the Hitchland (523097) to Conestoga (560029) 345kV line, near Hitchland**



**Figure 4-8. POI Voltages for Fault 3 – 3 phase fault on the Hitchland (523097) to Conestoga (560029) 345kV line, near Hitchland**

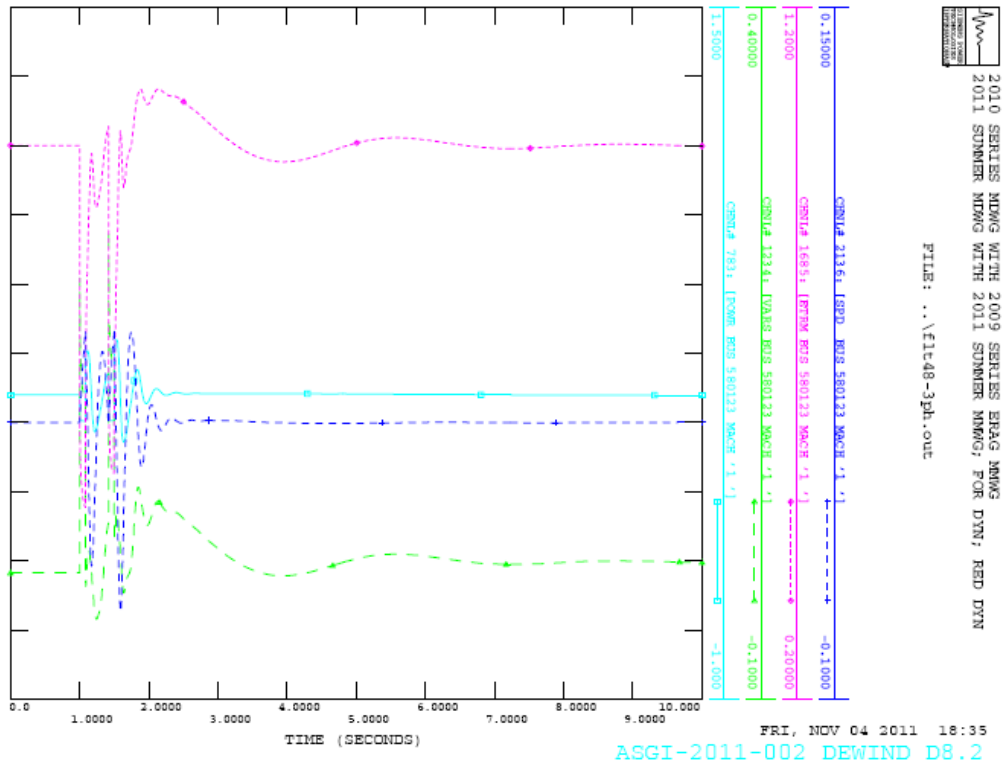


Figure 4-9. ASGI-2011-002 Plot for Fault 48 – 3-Phase fault on the Herring Tap (523352) to Riverview (523377) 115kV line, near Herring Tap 115kV

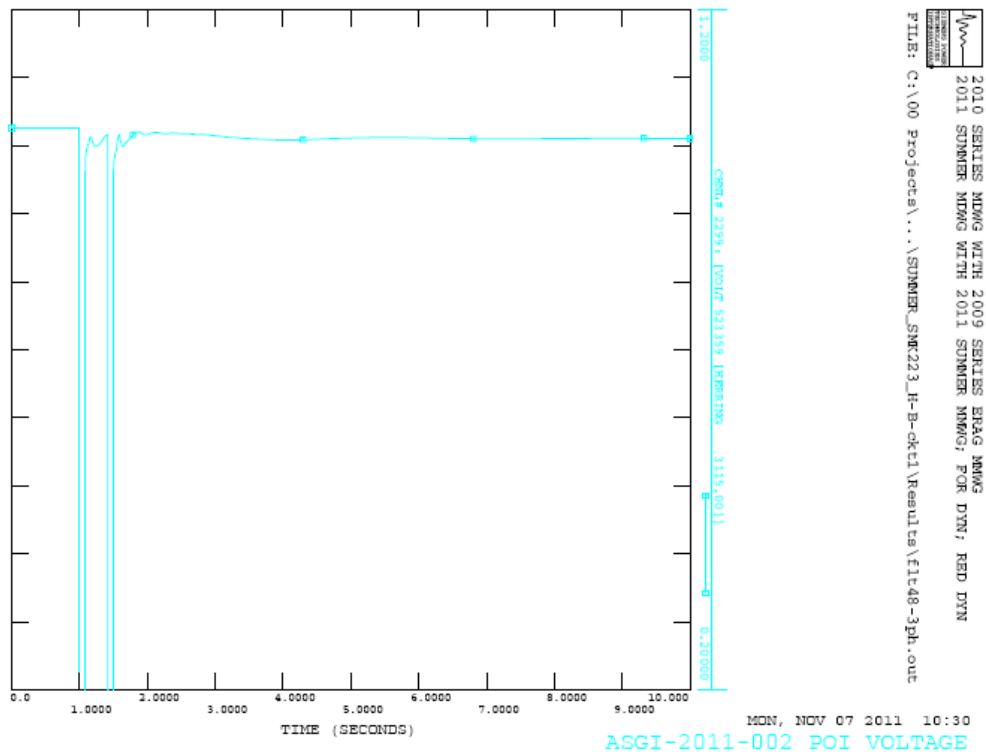


Figure 4-10. POI Voltages for Fault 48 – 3-Phase fault on the Herring Tap (523352) to Riverview (523377) 115kV line, near Herring Tap 115kV

## **4.2 Power Factor Requirements**

All stability faults were tested as power flow contingencies to determine the power factor requirements for the wind farm study projects to maintain scheduled voltage at their respective points of interconnection (POI). The voltage schedules are set equal to the voltages at the POIs before the projects are added, with a minimum of 1.0 per unit. Fictitious reactive power sources were added to the study projects to maintain scheduled voltage during all studied contingencies. The MW and Mvar injections from the study projects at the POIs were recorded and the resulting power factors were calculated for all contingencies for summer peak and winter peak cases. The most leading and most lagging power factors determine the minimum power factor range capability that the study projects must install before commercial operation.

If more than one study project shared a single POI, the projects were grouped together and a common power factor requirement was determined for those study projects. This ensures that none of the study projects is required to provide more or less than its fair share of the reactive power requirements at a single POI. *Prior-queued* projects at the same POI, if any, were not grouped with the study projects because their interconnection requirements were determined in previous studies. The voltage schedules of prior-queued and study projects at the same POI were coordinated.

Per FERC and SPP Tariff requirements, if the power factor needed to maintain scheduled voltage is less than 0.95 lagging, then the requirement is limited to 0.95 lagging. The lower limit for leading power factor requirement is also 0.95. If a project never operated leading under any contingency, then the leading requirement is set to 1.0. The same applies on the lagging side.

The final power factor requirements are shown in Table 4-2 below. These are only the minimum power factor ranges based on steady-state analysis.

The full details for each contingency in summer and winter peak cases are given in Appendix C.

**Table 4-2. Power Factor Requirements** <sup>1</sup>

Request	Size (MW)	Generator Model	Point of Interconnection	Final PF Requirement	
				Lagging <sup>2</sup>	Leading <sup>3</sup>
GEN-2011-012	104.5	GE 2.75MW	Tap on Moore County - Hitchland 230kV line	0.990	0.966
GEN-2011-014	201	Siemens 3.0MW	Tap on Hitchland to Woodward 345kV line	0.950	1.000
GEN-2011-021	299	Siemens 2.3MW	Tap on Hitchland to GEN-2008-047 Tap 345kV line	0.981	0.984
GEN-2011-022	299	Siemens 2.3MW	Hitchland 345kV	0.950	1.000
ASGI-2011-002	10	DeWind D8.2 2.0MW	Herring 115kV	0.950	0.950

## Notes:

1. For each plant, the table shows the minimum required power factor capability at the point of interconnection that must be designed and installed with the plant. The power factor capability at the POI includes the net effect of the generators, transformers, line impedances, and any reactive compensation devices installed on the plant side of the meter. Installing more capability than the minimum requirement is acceptable.
2. Lagging is when the generating plant is supplying reactive power to the transmission grid. In this situation, the alternating current sinusoid "lags" behind the alternating voltage sinusoid, meaning that the current peaks shortly after the voltage.
3. Leading is when the generating plant is taking reactive power from the transmission grid. In this situation, the alternating current sinusoid "leads" the alternating voltage sinusoid, meaning that the current peaks shortly before the voltage.



## 5. Conclusions

The DISIS-2001-001 GROUP 2 Impact Restudy evaluated the impacts of interconnecting the projects shown below.

**Table 5-1. Interconnection Requests Evaluated in this Study**

Request	Size (MW)	Wind Turbine Model	Point of Interconnection	POI Bus	Gen Buses
GEN-2011-012	104.5	GE 2.75MW	Tap on Moore County - Hitchland 230kV line	581116	581120
GEN-2011-014	201	Siemens 3.0MW	Tap on Hitchland to Woodward 345kV line	580500	581115
GEN-2011-021	299	Siemens 2.3MW	Tap on Hitchland to GEN-2008-047 Tap 345kV line	580507	581146 581147
GEN-2011-022	299	Siemens 2.3MW	Hitchland 345kV	523097	581153 581154
ASGI-2011-002	10	DeWind D8.2 2.0MW	Herring 115kV	523359	580123

No stability problems were found during summer or winter peak conditions due to the addition of these projects.

Final power factor for the study projects are listed in Table 4-2.

With the assumptions described in this report, the study projects should be able to connect without causing any stability problems on the SPP transmission grid.

Any change in system or wind farm models or assumptions could change these results.

## **Appendix A –Summer Peak Plots**

See attachments.

## **Appendix B –Winter Peak Plots**

See attachments.

## **Appendix C – Power Factor Details**

See attachment.

## **Appendix D – Project Model Data**

See attachment.

## **Appendix E – One-Line Diagram**

See attachment.

## **K: Stability Study for Group 3**

# **Preliminary Report**

**For**

**Southwest Power Pool**

**From**

**S&C Electric Company**

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**DEFINITIVE IMPACT STUDY  
DISIS-2011-001-1 (Group 3)**

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**S&C Project No. 5815**

**November 14, 2011**



**S&C Electric Company**

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**Report Revision History:**

Date of Report	Issue	Comments
Nov. 14, 2011	Rev. A	Preliminary report issued for review and approval

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## **EXECUTIVE SUMMARY**

S&C Electric Company has performed an interconnection impact study for the Definitive Impact Study DISIS-2011-001-1 (Group 3) in response to a request through the Southwest Power Pool (SPP) Tariff studies. The interconnection request for Group 3 consists of five wind generation projects.

The interconnection request projects and prior queued projects in the Sunflower Electric Power Company (SUNC) area were studied at 100% output power using 2010/2011 summer and winter peak loading cases provided by SPP.

SPP requires that interconnection request projects meet a voltage schedule at the point of interconnection (POI) consistent with the voltage in the SPP base case or nominal voltage, whichever is higher. The power factor requirements are for N-1 (or N-2 contingencies if applicable) contingencies specified by SPP. Power Factor analysis for the study projects at 100% output power revealed that the generating facilities must meet the following requirements.

- GEN-2010-029 is required to maintain a power factor of 95% lagging to 99.97% leading at the POI.
- GEN-2011-016 is required to maintain a power factor up to 95% lagging at the POI. There is no leading power factor requirement.
- GEN-2011-008 is required to maintain a power factor up to 95% lagging at the POI. There is no leading power factor requirement.
- GEN-2011-017 is required to maintain a power factor of 95% lagging to 99% leading at the POI.
- GEN-2011-023 is required to maintain a power factor of 99.10% leading at the POI. There is no lagging power factor requirement.

Transient stability analysis indicates that Group 3 and prior queued projects will ride-through each fault contingency specified by SPP and the nearby areas will retain angular, frequency and voltage stability.

Interconnection request projects in Group 3 can successfully interconnect into the transmission system at the desired location without reduction in output power. SPP's power



factor requirement at the POI consists of maintaining a voltage schedule equal to nominal voltage or pre-contingency voltage (base case voltage), whichever is higher.





## 1. INTRODUCTION

S&C Electric Company has performed an interconnection impact study for the Definitive Impact Study DISIS-2011-001-1 (Group 3) in response to a request through the Southwest Power Pool (SPP) Tariff studies. The interconnection request projects in Group 3 are listed in Table 1.1.

**Table 1.1: Study Projects in Group 3**

<b>Project</b>	<b>Size (MW)</b>	<b>Wind Turbine Model</b>	<b>Point of Interconnection</b>
GEN-2010-029	450	Vestas V90 1.8MW	Spearville 345kV (531469)
GEN-2011-008	600	GE 1.6MW	Comanche 345kV (765341)
GEN-2011-016	200.1	Siemens 2.3MW	Spearville 345kV (531469)
GEN-2011-017	299	Siemens 2.3MW	Tap on Spearville – Post Rock 345kV line (576704)
GEN-2011-023	299	Siemens 2.3MW	Tap on Comanche - Spearville 345kV (582023)

Group 3 and prior queued projects in the Sunflower Electric Power Company (SUNC) area were studied at 100% output power using 2010/2011 summer and winter peak loading cases provided by SPP.

## 2 TRANSMISSION SYSTEM AND STUDY AREA

The wind generation projects in Group 3 will interconnect into SUNC. In addition to the SUNC area, the following areas were monitored:

- AEP West (AEPW)
- Oklahoma Gas and Electric (OKGE)
- Western Farmers Electric Cooperative (WFEC)
- Southwestern Public Service (SPS)
- Midwest Energy, Inc. (MIDW)
- Westar Energy, Inc (WERE)
- Nebraska Public Power District (NPPD)
- Omaha Public Power District (NPPD)



Lincoln Electric System (LES)

Western Area Power Administration (WAPA)

### **3. POWER FLOW BASE CASES**

The following power flow base cases were provided by SPP:

**MDWG\_2010\_2011SP\_DISIS-2011-001-1-G3.sav**– Summer peak 2010/2011, which includes aggregate representation of wind turbine generators for Definitive Impact Study DISIS-2011-001-1 (Group 3) and prior queued projects at 100% output power.

**MDWG\_2010\_2011WP\_DISIS-2011-001-1-G3.sav**– Winter peak 2010/2011, which includes aggregate representation of generation interconnect projects for Definitive Impact Study DISIS-2011-001-1 (Group 3) and prior queued projects at 100% output power.

### **4 POWER FLOW MODEL**

Definitive Impact Study DISIS-2011-001-1 (Group 3) and prior queued projects were modeled as aggregates of wind turbine generators. The aggregate models were part of the base case supplied by SPP. Single-line diagrams and other information corresponding to the Group 1 project can be found in Appendix A.

#### **4.1 Vestas V90 VCS 1.8 MW / 60 Hz Wind Turbine Generator**

The Vestas V90-1.8 MW wind turbine is a pitch regulated upwind turbine with active yaw and a three-blade rotor. The generator is a 3-phase asynchronous generator with wound rotor. The Vestas V90-1.8 MW turbine has a rotor diameter of 90 m with a generator rated at 1.8 MW. It is modeled as a generator with an aggregated to power output equal to total MW of wind farm, voltage and frequency protection of wind turbine is modeled on table 6.3.

#### **4.2 Siemens SWT 2.3 MW / 60 Hz Wind Turbine Generator**

The SWT WTG consists of a rotor, gearbox, induction generator, machine bridge, DC link, and network bridge. The machine bridge and network bridge decouple the generator from the power system and allows the WTG to operate at a definite power

factor setpoint. The power factor range of operation in steady-state and dynamically is variable and is a function of the voltage at the generator terminals and the active power output of the generator. At rated output power and at nominal terminal voltage, the output power factor range varies from 90% leading (inductive) to 90% lagging (capacitive) power factor. The lagging power factor range is reduced if the terminal voltage is higher than nominal. The leading power factor range is reduced if the terminal voltage is less than nominal and increased if the terminal voltage is greater than nominal.

#### **4.3 GE 1.6xle / 60 Hz Wind Turbine Generator**

The GE 1.6xle WTG consists of a single rotor branch (single cage) doubly-fed (wound rotor) induction generator machine. In the model the MVAR generation will be calculated by either one of the operating modes: voltage control mode, or power factor control mode. This turbine has a rotor diameter of 82.5 m. The machine is modeled as a generator lumped to the power output equal to the total MW of the wind farm.

## **5. POWER FACTOR REQUIREMENTS AT THE POINT OF INTERCONNECTION**

SPP has specific voltage requirements for interconnecting wind farm requests. Such projects are required to meet a voltage schedule at the POI consistent with the voltage in the SPP base case or nominal voltage, whichever is higher, for transmission facility outage contingencies specified by SPP.

### **5.1 Facility Outage Contingencies**

Single transmission facility outage contingencies specified by SPP are listed in Table 5.1.

**Table 5.1: List of Power Flow Contingencies**

<b>Cont. No.</b>	<b>Description</b>
0	System Intact
1	Outage of the Spearville (531469) to GEN-2007-040 Tap (531000) 345kV line
2	Outage of the GEN-2010-016 Tap (576704) to Spearville (531469) 345kV line
3	Outage of the Spearville (531469) to Comanche (765341) 345kV lines Ckt 1
4	Outage of the Spearville 345kV (531469) to 230kV (539695) transformer
5	Outage of the Spearville 230kV (539695) to 115kV (539694) transformer
6	Outage of the Spearville 345kV (531469) to 115kV (539694) transformer
7	Outage of the Spearville (539695) to Mullergren (539679) 230kV line
8	Outage of the Comanche (765341) to Medicine Lodge (765342) 345kV line Ckt 1
9	Outage of the GEN-2010-016 Tap (576704) to Post Rock (530583) 345kV line
10	Outage of the Finney (523853) to Conestoga (560029) 345kV line
11	Outage of the Finney (523853) to Holcomb (531449) 345kV lines
12	Outage of the Holcomb (531449) to Setab (531465) 345kV line, near Holcomb
13	Outage of the Holcomb 345kV (531449) to 115kV (531448) transformer
14	Outage of the Finney (523853) to Lamar (599950) 345kV line
15	Outage of the Mullergren (539679) to South Hays (530582) 230kV line
16	Outage of the Mullergren (539679) to Circle (532871) 230kV line
17	Outage of the Mullergren (100321) to Spearville (531469) 345kV line, Ckt 1 & 2
18	Outage of the Woodward (515375) to GEN-2008-047 (580500) Tap 345kV lines Ckt 1 & 2
19	Outage of the Knoll (530558) to Post Rock (530584) 230kV line
20	Outage of the Post Rock (530583) to Axtell (640065) 345kV line
21	Outage of the Post Rock 345kV (530583) to 230kV (530584) transformer
22	Outage of the GEN-2001-039A Tap (579025) to Fort Dodge (539671) 115kV line
23	Outage of the GEN-2008-079 Tap (573029) to Cudahy (539659) 115kV line
24	Outage of the Kismet (539646) to CMRIVTP (539652) 115kV line
25	Outage of the CMRIVTP (539652) to E-Liber (539672) 115kV line
26	System Intact Hugoton (531481) to GrantTP (531483) 115kV line
27	Outage of the Pratt (539687) to Ninnescah (539648) 115kV line
28	Outage of the Pratt (539687) to Sawyer (539649) 115kV line
29	Outage of the Medicine Lodge (539673) to Sun City (539697) 115kV line
30	Outage of the GEN-2008-047 (580500) to GEN-2007-040 Tap (531000) 345kV line



Cont. No.	Description
31	Outage of the Spearville (531469) to Mullergren (100321) 345kV lines Ckt 1 & 2
32	Outage of the Medicine Lodge (765342) to Wichita (532796) 345kV lines Ckt 1 & 2
33	Outage of the Medicine Lodge (765342) to Wichita (532796) 345kV lines Ckt 1
34	Outage of the GEN-2011-023 (582023) to Comanche (765341) 345kV line
35	Outage of the GEN-2011-023 (582023) to Spearville (531469) 345kV line

The base case voltages at the point of interconnection for summer and winter are listed in Table 5.2.

**Table 5.2: Base Case Voltage at the Point of Interconnection**

Point of Interconnection	Summer Peak 2010/2011 (pu)	Winter Peak 2010/2011 (pu)
Spearville 345kV (531469)	0.980	0.954
Comanche 345kV (765341)	0.970	0.938
Tap on Spearville – Post Rock 345kV line (576704)	0.978	0.944
Tap on Comanche - Spearville 345kV (582023)	0.976	0.948

The power factor required to maintain a voltage schedule at the POI of 1.0 per unit voltage in accordance with SPP requirements for each of the power flow contingencies in Table 5.2 is listed in Tables 5.3 through 5.7. Wind farms are not typically required according to FERC 661-A to operate at the POI beyond a power factor range of  $\pm 95\%$  for voltages from 95 to 105% of nominal. To deliver additional capacitive reactive power in order to meet the schedule at the POI of 1.0 per unit voltage, external sources of reactive power such as capacitor banks will be needed.

Power Factor analysis indicates the following;

- GEN-2010-029 is required to maintain a power factor of 95% lagging to 99% leading at the POI.
- GEN-2011-016 is required to maintain a power factor up to 95% lagging at the POI. If all the Group 3 and prior queued projects are in service at 100% output power there is no leading power factor requirement for this project.



- GEN-2011-008 is required to maintain a power factor up to 95% lagging at the POI. If all the Group 3 and prior queued projects are in service at 100% output power there is no leading power factor requirement for this project.
- GEN-2011-017 is required to maintain a power factor of 95% lagging to 99% leading at the POI.
- GEN-2011-023 is required to maintain a power factor of 99% leading at the POI. If all the Group 3 and prior queued projects are in service at 100% output power there is no lagging power factor requirement for this project.

**Table 5.3: Power Factor Requirements to Meet 1.0 PU Voltage at the POI for Power Flow Contingencies in Table 5.1 for GEN-2010-029**

Cont. No.	Summer				Winter			
	P (MW)	Q (MVAR)	Power Factor		P (MW)	Q (MVAR)	Power Factor	
0	-425.7	6.1	99.99%	Leading	-426.2	-38.2	99.60%	Lagging
1	-425.9	-10.8	99.97%	Lagging	-426.2	-34.1	99.68%	Lagging
2	-426.5	-99.4	97.39%	Lagging	-426.4	-145.1	94.67%	Lagging
3	-425.7	6.1	99.99%	Leading	-426.2	-38.2	99.60%	Lagging
4	-425.7	11.2	99.97%	Leading	-426.2	-33.4	99.69%	Lagging
5	-425.7	6.1	99.99%	Leading	-426.2	-38.1	99.60%	Lagging
6	-425.7	10.9	99.97%	Leading	-426.2	-36.3	99.64%	Lagging
7	-426.1	-20.6	99.88%	Lagging	-426.4	-67.6	98.77%	Lagging
8	-426.5	-81.6	98.22%	Lagging	-426.5	-128.1	95.77%	Lagging
9	-426.4	-157.9	93.78%	Lagging	-425.9	-206	90.02%	Lagging
10	-426.3	-42.6	99.50%	Lagging	-426.4	-74.2	98.52%	Lagging
11	-425.7	5.9	99.99%	Leading	-426.2	-38.3	99.60%	Lagging
12	-426.3	-50	99.32%	Lagging	-426.5	-93.5	97.68%	Lagging
13	-425.4	25	99.83%	Leading	-426.2	-38.8	99.59%	Lagging
14	-425.7	6	99.99%	Leading	-426.2	-38.2	99.60%	Lagging
15	-425.9	-3.3	100.00%	Lagging	-426.3	-47.3	99.39%	Lagging
16	-426	-16.2	99.93%	Lagging	-426.4	-62.4	98.95%	Lagging
17	-426.1	-27.6	99.79%	Lagging	-426.4	-63.3	98.92%	Lagging
18	-425.9	-7.8	99.98%	Lagging	-426.4	-57.8	99.09%	Lagging
19	-425.9	-3.7	100.00%	Lagging	-426.3	-48.7	99.35%	Lagging
20	-426.4	-69.8	98.69%	Lagging	-426.5	-133	95.47%	Lagging
21	-425.9	-10.5	99.97%	Lagging	-426.3	-48	99.37%	Lagging



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Cont. No.	Summer				Winter			
	P (MW)	Q (MVAR)	Power Factor		P (MW)	Q (MVAR)	Power Factor	
22	-425.7	11	99.97%	Leading	-426.2	-32.8	99.71%	Lagging
23	-425.9	-7.1	99.99%	Lagging	-426.3	-55.1	99.18%	Lagging
24	-425.9	-5.3	99.99%	Lagging	-426.3	-52.9	99.24%	Lagging
25	-425.7	5.3	99.99%	Leading	-426.2	-39	99.58%	Lagging
26	-425.7	5.3	99.99%	Leading	-426.2	-39.1	99.58%	Lagging
27	-425.9	-7.6	99.98%	Lagging	-426.3	-53	99.24%	Lagging
28	-425.7	7.4	99.98%	Leading	-426.2	-35.8	99.65%	Lagging
29	-425.9	-6.1	99.99%	Lagging	-426.3	-51.4	99.28%	Lagging
30	-426.4	-75.8	98.46%	Lagging	-426.5	-115.9	96.50%	Lagging
31	-426.1	-27.6	99.79%	Lagging	-426.4	-63.3	98.92%	Lagging
32	-426.5	-90.2	97.84%	Lagging	-426.4	-141.2	94.93%	Lagging
33	-426.5	-90.2	97.84%	Lagging	-426.4	-141.2	94.93%	Lagging
34	-425.7	6.1	99.99%	Leading	-426.2	-38.2	99.60%	Lagging
35	-425.7	6.1	99.99%	Leading	-426.2	-38.2	99.60%	Lagging

**5.4: Power Factor Requirements to Meet 1.0 PU Voltage at the POI for Power Flow Contingencies in Table 5.1 for GEN-2011-016**

Cont. No.	Summer				Winter			
	P (MW)	Q (MVAR)	Power Factor		P (MW)	Q (MVAR)	Power Factor	
0	-195.3	-44.4	97.51%	Lagging	-195.3	-54	96.38%	Lagging
1	-195.3	-48	97.11%	Lagging	-195.3	-53.1	96.50%	Lagging
2	-194.9	-68.4	94.36%	Lagging	-194.6	-101.6	88.65%	Lagging
3	-195.3	-44.4	97.51%	Lagging	-195.3	-54	96.38%	Lagging
4	-195.3	-43.4	97.62%	Lagging	-195.3	-53	96.51%	Lagging
5	-195.3	-44.4	97.51%	Lagging	-195.3	-54	96.38%	Lagging
6	-195.3	-43.4	97.62%	Lagging	-195.3	-53.6	96.43%	Lagging
7	-195.3	-50.1	96.86%	Lagging	-195.1	-60.8	95.47%	Lagging
8	-195	-64.1	95.00%	Lagging	-194.6	-82.4	92.08%	Lagging
9	-194.5	-115.7	85.94%	Lagging	-194.1	-167.9	75.63%	Lagging
10	-195.3	-55	96.26%	Lagging	-195.1	-62.3	95.26%	Lagging
11	-195.3	-44.5	97.50%	Lagging	-195.3	-54.1	96.37%	Lagging
12	-195.2	-56.7	96.03%	Lagging	-194.9	-66.9	94.58%	Lagging
13	-195.3	-40.5	97.92%	Lagging	-195.3	-54.2	96.36%	Lagging
14	-195.3	-44.4	97.51%	Lagging	-195.3	-54	96.38%	Lagging



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Cont. No.	Summer				Winter			
	P (MW)	Q (MVAR)	Power Factor		P (MW)	Q (MVAR)	Power Factor	
15	-195.3	-46.4	97.29%	Lagging	-195.2	-56.1	96.11%	Lagging
16	-195.3	-49.2	96.97%	Lagging	-195.2	-59.6	95.64%	Lagging
17	-195.3	-51.7	96.67%	Lagging	-195.2	-59.8	95.61%	Lagging
18	-195.3	-47.4	97.18%	Lagging	-195.2	-58.5	95.79%	Lagging
19	-195.3	-46.5	97.28%	Lagging	-195.2	-56.4	96.07%	Lagging
20	-195.1	-61.3	95.40%	Lagging	-194.6	-88	91.12%	Lagging
21	-195.3	-47.9	97.12%	Lagging	-195.2	-56.3	96.08%	Lagging
22	-195.3	-43.4	97.62%	Lagging	-195.3	-52.8	96.53%	Lagging
23	-195.3	-47.2	97.20%	Lagging	-195.2	-57.9	95.87%	Lagging
24	-195.3	-46.8	97.25%	Lagging	-195.2	-57.4	95.94%	Lagging
25	-195.3	-44.6	97.49%	Lagging	-195.3	-54.2	96.36%	Lagging
26	-195.3	-44.6	97.49%	Lagging	-195.3	-54.2	96.36%	Lagging
27	-195.3	-47.3	97.19%	Lagging	-195.2	-57.4	95.94%	Lagging
28	-195.3	-44.2	97.53%	Lagging	-195.3	-53.5	96.45%	Lagging
29	-195.3	-47	97.22%	Lagging	-195.2	-57	95.99%	Lagging
30	-195.1	-62.7	95.20%	Lagging	-194.7	-72.5	93.71%	Lagging
31	-195.3	-51.7	96.67%	Lagging	-195.2	-59.8	95.61%	Lagging
32	-194.9	-66.1	94.70%	Lagging	-194.6	-97.2	89.46%	Lagging
33	-194.9	-66.1	94.70%	Lagging	-194.6	-97.2	89.46%	Lagging
34	-195.3	-44.4	97.51%	Lagging	-195.3	-54	96.38%	Lagging
35	-195.3	-44.4	97.51%	Lagging	-195.2	-54.1	96.37%	Lagging

**Table 5.5: Power Factor Requirements to Meet 1.0 PU Voltage at the POI for Power Flow Contingencies in Table 5.1 for GEN-2011-008**

Cont. No.	Summer				Winter			
	P (MW)	Q (MVAR)	Power Factor		P (MW)	Q (MVAR)	Power Factor	
0	-571	-217	93.48%	Lagging	-568	-294.2	88.80%	Lagging
1	-573.4	-178.8	95.47%	Lagging	-569.8	-240.5	92.13%	Lagging
2	-569	-292.1	88.96%	Lagging	-568	-294.2	88.80%	Lagging
3	-571	-217	93.48%	Lagging	-568	-293.3	88.85%	Lagging
4	-571	-217	93.48%	Lagging	-568	-294.2	88.80%	Lagging
5	-571	-217	93.48%	Lagging	568	-294.3	88.79%	Lagging
6	-571	-216.6	93.50%	Lagging	-568	-293.5	88.84%	Lagging
7	-570.2	-251	91.52%	Lagging	-566.4	-332.1	86.26%	Lagging
8	-570.6	-234.5	92.49%	Lagging	-568.1	-290.3	89.05%	Lagging





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Cont. No.	Summer				Winter			
	P (MW)	Q (MVAR)	Power Factor		P (MW)	Q (MVAR)	Power Factor	
9	-566.9	-352.4	84.93%	Lagging	-559.7	-462.3	77.10%	Lagging
10	-570.4	-242.5	92.03%	Lagging	-567.3	-311	87.69%	Lagging
11	-571	-216.9	93.48%	Lagging	-568	-294.1	88.80%	Lagging
12	-570.5	-237.1	92.34%	Lagging	-566.9	-322.3	86.93%	Lagging
13	-571	-215.5	93.56%	Lagging	-568	-294.2	88.80%	Lagging
14	-571	-217	93.48%	Lagging	-568	-294.2	88.80%	Lagging
15	-571	-218	93.42%	Lagging	-567.9	-295.7	88.70%	Lagging
16	-570.4	-242.8	92.01%	Lagging	-566.7	-326.1	86.67%	Lagging
17	-569.4	-279.6	89.76%	Lagging	-564.9	-366.4	83.90%	Lagging
18	-570.4	-242.2	92.05%	Lagging	-566.7	-325.1	86.74%	Lagging
19	-570.8	-227	92.92%	Lagging	-567.5	-306	88.02%	Lagging
20	-568.2	-316.7	87.35%	Lagging	-561.4	-433.7	79.14%	Lagging
21	-570.7	-228.4	92.84%	Lagging	-567.6	-303.7	88.17%	Lagging
22	-571	-218.7	93.38%	Lagging	-567.7	-302.4	88.26%	Lagging
23	-570.8	-224	93.09%	Lagging	-567.7	-301.4	88.32%	Lagging
24	-570.9	-222.8	93.16%	Lagging	-568	-294.6	88.77%	Lagging
25	-571	-217.4	93.46%	Lagging	-568	-293.8	88.82%	Lagging
26	-571	-217	93.48%	Lagging	-568	-294.3	88.79%	Lagging
27	-570.7	-229.9	92.76%	Lagging	-567.8	-299	88.48%	Lagging
28	-571	-217.7	93.44%	Lagging	-567.8	-298.1	88.54%	Lagging
29	-570.8	-224.5	93.06%	Lagging	-567.7	-300.5	88.38%	Lagging
30	-569.4	-281.3	89.66%	Lagging	-565.6	-352.1	84.89%	Lagging
31	-569.4	-279.6	89.76%	Lagging	-564.9	-366.4	83.90%	Lagging
32	-559.2	-168.8	95.73%	Lagging	-569.9	-239.2	92.21%	Lagging
33	-559.2	-168.8	95.73%	Lagging	-569.9	-239.2	92.21%	Lagging
34	-571	-217	93.48%	Lagging	-568	-294.2	88.80%	Lagging
35	-571	-217	93.48%	Lagging	-568	-294.3	88.79%	Lagging



**Table 5.6: Power Factor Requirements to Meet 1.0 PU Voltage at the POI for Power Flow Contingencies in Table 5.1 for GEN-2011-017**

Cont. No.	Summer				Winter			
	P (MW)	Q (MVAR)	Power Factor		P (MW)	Q (MVAR)	Power Factor	
0	-291.8	-98.4	94.76%	Lagging	-291.6	-155.3	88.26%	Lagging
1	-291.9	-78.3	96.59%	Lagging	-291.8	-125.1	91.91%	Lagging
2	-291.9	19.1	99.79%	Leading	-292	-6.6	99.97%	Lagging
3	-291.8	-98.4	94.76%	Lagging	-291.6	-155.3	88.26%	Lagging
4	-291.8	-98.7	94.73%	Lagging	-291.6	-155.7	88.21%	Lagging
5	-291.8	-98.4	94.76%	Lagging	-291.6	-155.3	88.26%	Lagging
6	-291.8	-98.1	94.79%	Lagging	-291.6	-154.7	88.34%	Lagging
7	-291.7	-136.3	90.60%	Lagging	-291.4	-195.5	83.04%	Lagging
8	-291.7	-136.1	90.62%	Lagging	-291.3	-202.1	82.16%	Lagging
9	-291.9	41.4	99.01%	Leading	-291.9	41.4	99.01%	Leading
10	-291.8	-103.1	94.29%	Lagging	-291.6	-160.2	87.64%	Lagging
11	-291.8	-98.4	94.76%	Lagging	-291.6	-155.3	88.26%	Lagging
12	-291.7	-140.3	90.12%	Lagging	-291.3	-206.2	81.62%	Lagging
13	-291.9	-97.3	94.87%	Lagging	-291.6	-155.3	88.26%	Lagging
14	-291.8	-98.4	94.76%	Lagging	-291.6	-155.3	88.26%	Lagging
15	-291.9	-91	95.47%	Lagging	-291.7	-148.3	89.14%	Lagging
16	-291.8	-98.2	94.78%	Lagging	-291.6	-156	88.17%	Lagging
17	-291.7	-128.1	91.56%	Lagging	-291.4	-192.5	83.44%	Lagging
18	-291.8	-103	94.30%	Lagging	-291.6	-162.4	87.36%	Lagging
19	-291.9	-90.8	95.49%	Lagging	-291.7	-139.8	90.18%	Lagging
20	-291.9	-5.3	99.98%	Lagging	-292	-12.4	99.91%	Lagging
21	-291.9	-95	95.09%	Lagging	-291.5	-174.7	85.78%	Lagging
22	-291.9	-97.5	94.85%	Lagging	-291.6	-159.3	87.76%	Lagging
23	-291.8	-101.6	94.44%	Lagging	-291.6	-158.8	87.82%	Lagging
24	-291.8	-101	94.50%	Lagging	-291.6	-158.8	87.82%	Lagging
25	-291.8	-98.5	94.75%	Lagging	-291.6	-155.5	88.24%	Lagging
26	-291.8	-98.2	94.78%	Lagging	-291.6	-155.2	88.28%	Lagging
27	-291.8	-103.3	94.27%	Lagging	-291.6	-160.5	87.61%	Lagging
28	-291.9	-97.6	94.84%	Lagging	-291.6	-153.7	88.46%	Lagging
29	-291.8	-101.1	94.49%	Lagging	-291.6	-158.2	87.90%	Lagging
30	-291.8	-117.9	92.72%	Lagging	-291.5	-176.3	85.57%	Lagging
31	-291.7	-128.1	91.56%	Lagging	-291.4	-192.5	83.44%	Lagging



Cont. No.	Summer				Winter			
	P (MW)	Q (MVAR)	Power Factor		P (MW)	Q (MVAR)	Power Factor	
32	-291.7	-134.5	90.81%	Lagging	-291.3	-204.7	81.82%	Lagging
33	-291.7	-134.5	90.81%	Lagging	-291.3	-204.7	81.82%	Lagging
34	-291.8	-98.4	94.76%	Lagging	-291.6	-155.3	88.26%	Lagging
35	-291.8	-98.4	94.76%	Lagging	-291.6	-155.4	88.25%	Lagging

**Table 5.7: Power Factor Requirements to Meet 1.0 PU Voltage at the POI for Power Flow Contingencies in Table 5.1 for GEN-2011-023**

Cont. No.	Summer				Winter			
	P (MW)	Q (MVAR)	Power Factor		P (MW)	Q (MVAR)	Power Factor	
0	-292.9	33.9	99.34%	Leading	-292.9	33.8	99.34%	Leading
1	-292.9	36.1	99.25%	Leading	-292.9	36.5	99.23%	Leading
2	-292.9	30.9	99.45%	Leading	-292.9	30.3	99.47%	Leading
3	-292.9	33.9	99.34%	Leading	-292.9	33.8	99.34%	Leading
4	-292.9	33.9	99.34%	Leading	-292.9	33.8	99.34%	Leading
5	-292.9	33.9	99.34%	Leading	-292.9	33.8	99.34%	Leading
6	-292.9	34	99.33%	Leading	-292.9	33.9	99.34%	Leading
7	-292.9	32.4	99.39%	Leading	-292.9	32.2	99.40%	Leading
8	-293	39.6	99.10%	Leading	-293	39.6	99.10%	Leading
9	-292.8	28.4	99.53%	Leading	-292.8	27.6	99.56%	Leading
10	-292.9	32.3	99.40%	Leading	-292.9	32.7	99.38%	Leading
11	-292.9	33.9	99.34%	Leading	-292.9	33.8	99.34%	Leading
12	-292.9	33.6	99.35%	Leading	-292.9	33.4	99.36%	Leading
13	-292.9	34	99.33%	Leading	-292.9	33.8	99.34%	Leading
14	-292.9	33.9	99.34%	Leading	-292.9	33.8	99.34%	Leading
15	-292.9	33.9	99.34%	Leading	-292.9	33.8	99.34%	Leading
16	-292.9	33	99.37%	Leading	-292.9	32.8	99.38%	Leading
17	-292.9	31.2	99.44%	Leading	-292.9	30.9	99.45%	Leading
18	-292.9	32.5	99.39%	Leading	-292.9	32.1	99.40%	Leading
19	-292.9	33.5	99.35%	Leading	-292.9	33.4	99.36%	Leading
20	-292.9	30.4	99.47%	Leading	-292.9	29.6	99.49%	Leading
21	-292.9	33.4	99.36%	Leading	-292.9	33.3	99.36%	Leading
22	-292.9	34.2	99.33%	Leading	-292.9	34	99.33%	Leading
23	-292.9	33.6	99.35%	Leading	-292.9	33.5	99.35%	Leading
24	-292.9	33.7	99.34%	Leading	-292.9	33.8	99.34%	Leading



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Cont. No.	Summer				Winter			
	P (MW)	Q (MVAR)	Power Factor		P (MW)	Q (MVAR)	Power Factor	
25	-292.9	33.9	99.34%	Leading	-292.9	33.8	99.34%	Leading
26	-292.9	33.9	99.34%	Leading	-292.9	33.8	99.34%	Leading
27	-292.9	34.7	99.31%	Leading	-292.9	34.6	99.31%	Leading
28	-292.9	33.7	99.34%	Leading	-292.9	33.5	99.35%	Leading
29	-292.9	33.2	99.36%	Leading	-292.9	33	99.37%	Leading
30	-292.9	29.8	99.49%	Leading	-292.9	30.2	99.47%	Leading
31	-292.9	31.2	99.44%	Leading	-292.9	30.9	99.45%	Leading
32	-292.9	37.8	99.18%	Leading	-292.9	37.9	99.17%	Leading
33	-292.9	37.8	99.18%	Leading	-292.9	37.9	99.17%	Leading
34	-292.9	33.9	99.34%	Leading	-292.9	33.8	99.34%	Leading
35	-292.9	33.9	99.34%	Leading	-292.9	33.8	99.34%	Leading



## **6. TRANSIENT STABILITY ANALYSIS**

Transient stability analysis was performed for the fault contingencies in Table 6.1, which were specified by SPP. For the purpose of the transient stability analysis, each of the interconnection request projects were studied with 95% power factor at the POIs. As it is discussed with SPP, contingencies #22 and 23 are invalid due to a disabled line between GEN-2008-018 Tap (531010) and Holcomb (531449) and is removed from the model. These contingencies are highlighted in the table.



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Cont. No.	Cont. Name	SPP fault contingencies
1	FLT01-3PH	3 phase fault on the Spearville (531469) to GEN-2007-040 Tap (531000) 345kV line, near Spearville. a. Apply fault at the Spearville 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
2	FLT02-1PH	Single phase fault on the line in previous a. Apply single phase fault at the Spearville 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
3	FLT03-3PH	3 phase fault on the GEN-2010-016 Tap (576704) to Spearville (531469) 345kV line, near GEN-2010-016 Tap. a. Apply fault at GEN-2010-016 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
4	FLT04-1PH	Single phase fault on the line in previous a. Apply single phase fault at GEN-2010-016 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
5	FLT05-3PH	3 phase fault on one of the Spearville (531469) to Comanche (765341) 345kV line Ckt 1, near Spearville. a. Apply fault at the Spearville 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
6	FLT06-1PH	Single phase fault on the line in previous a. Apply single phase fault at the Spearville 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
7	FLT07-3PH	3 phase fault on the Spearville 345kV (531469) to 230kV (539695) transformer, near the 345kV bus. a. Apply fault at the Spearville 345kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
8	FLT08-3PH	3 phase fault on the Spearville 230kV (539695) to 115kV (539694) transformer, near the 230kV bus. a. Apply fault at the Spearville 230kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
9	FLT09-3PH	3 phase fault on the Spearville 345kV (531469) to 115kV (539694) transformer, near the 345kV bus. a. Apply fault at the Spearville 345kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
10	FLT10-3PH	3 phase fault on the Spearville (539695) to Mullergren (539679) 230kV line, near Spearville. a. Apply fault at the Spearville 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
11	FLT11-1PH	<i>Single phase fault and sequence like previous</i>
12	FLT12-3PH	3 phase fault on the Comanche (765341) to Medicine Lodge (765342) 345kV line Ckt1, near Comanche. a. Apply fault at the Comanche 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.



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Cont. No.	Cont. Name	SPP fault contingencies
13	FLT13-1PH	Single phase fault on the line in previous a. Apply single phase fault at the Comanche 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
14	FLT14-3PH	3 phase fault on the GEN-2010-016 Tap (576704) to Post Rock (530583) 345kV line, near GEN-2010-016 Tap. a. Apply fault at GEN-2010-016 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
15	FLT15-1PH	Single phase fault on the line in previous a. Apply single phase fault at GEN-2010-016 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
16	FLT16-3PH	3 phase fault on the Finney (523853) to Conestoga (560029) 345kV line, near Finney. a. Apply fault at the Finney 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
17	FLT17-1PH	Single phase fault on the line in previous a. Apply single phase fault at the Finney 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
18	FLT18-3PH	3 phase fault on one of the Finney (523853) to Holcomb (531449) 345kV lines, near Finney. a. Apply fault at the Finney 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
19	FLT19-1H	Single phase fault on the line in previous a. Apply single phase fault at the Finney 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
20	FLT20-3PH	3 phase fault on the Holcomb (531449) to Setab (531465) 345kV line, near Holcomb. a. Apply fault at the Holcomb 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
21	FLT21-1PH	Single phase fault on the line in previous a. Apply single phase fault at the Holcomb 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
22	FLT22-3PH	3 phase fault on the GEN-2008-018 Tap (531010) to Holcomb (531449) 345kV line, near GEN-2008-018 Tap. a. Apply fault at the GEN-2008-018 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
23	FLT23-1PH	Single phase fault on the line in previous a. Apply single phase fault at the GEN-2008-018 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
24	FLT24-3PH	3 phase fault on the Holcomb 345kV (531449) to 115kV (531448) transformer, near the 345 kV bus. a. Apply fault at the Holcomb 345kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.



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Cont. No.	Cont. Name	SPP fault contingencies
25	FLT25-3PH	3 phase fault on the Finney (523853) to Lamar (599950) 345kV line, near Finney. a. Apply fault at Finney 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
26	FLT26-1PH	<i>Single phase fault and sequence like previous</i>
27	FLT27-3PH	3 phase fault on the Mullergren (539679) to South Hays (530582) 230kV line, near Mullergren. a. Apply fault at the Mullergren 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
28	FLT28-1PH	<i>Single phase fault and sequence like previous</i>
29	FLT29-3PH	3 phase fault on the Mullergren (539679) to Circle (532871) 230kV line, near Mullergren. a. Apply fault at the Mullergren 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
30	FLT30-1PH	<i>Single phase fault and sequence like previous</i>
31	FLT31-3PH	3 phase fault on the Mullergren (100321) to Spearville (531469) 345kV lines, near Spearville (double fault). a. Apply fault at the Spearville 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
32	FLT32-1PH	Single phase fault on the line in previous a. Apply single phase fault at the Spearville 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
33	FLT33-3PH	3 phase fault on the Woodward (515375) to GEN-2008-047 Tap 345kV lines Ckt 1 & 2, near Woodward. a. Apply fault at the Woodward 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
34	FLT34-1PH	Single phase fault on the line in previous a. Apply single phase fault. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
35	FLT35-3PH	3 phase fault on the Knoll (530558) to Post Rock (530584) 230kV line, near Knoll. a. Apply fault at the Knoll 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
36	FLT36-1PH	<i>Single phase fault and sequence like previous</i>
37	FLT37-3PH	3 phase fault on the Post Rock (530583) to Axtell (640065) 345kV line, near Post Rock. a. Apply fault at the Post Rock 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
38	FLT38-1PH	Single phase fault on the line in previous a. Apply single phase fault at the Post Rock 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.





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Cont. No.	Cont. Name	SPP fault contingencies
39	FLT39-3PH	3 phase fault on the Post Rock 345kV (530583) to 230kV (530584) transformer, near the 345 kV bus. a. Apply fault at the Post Rock 345kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
40	FLT40-3PH	3 phase fault on the GEN-2001-039A Tap (579025) to Fort Dodge (539671) 115kV line, near GEN-2001-039A Tap. a. Apply fault at the GEN-2001-039A Tap 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
41	FLT41-1PH	<i>Single phase fault and sequence like previous</i>
42	FLT42-3PH	3 phase fault on the GEN-2008-079 Tap (573029) to Cudahy (539659) 115kV line, near GEN-2008-079 Tap. a. Apply fault at the GEN-2008-079 Tap 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
43	FLT43-1PH	<i>Single phase fault and sequence like previous</i>
44	FLT44-3PH	3 phase fault on the Kismet (539646) to CMRIVTP (539652) 115kV line, near CMRIVTP. a. Apply fault at the Kismet 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
45	FLT45-1PH	<i>Single phase fault and sequence like previous</i>
46	FLT46-3PH	3 phase fault on the CMRIVTP (539652) to E-Liber (539672) 115kV line, near Kismet. a. Apply fault at the CMRIVTP 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
47	FLT47-1PH	<i>Single phase fault and sequence like previous</i>
48	FLT48-3PH	3 phase fault on the Hugoton (531481) to GrantTP (531483) 115kV line, near Hugoton. a. Apply fault at the Hugoton 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
49	FLT49-1PH	<i>Single phase fault and sequence like previous</i>
50	FLT50-3PH	3 phase fault on the Pratt (539687) to Ninnescah (539648) 115kV line, near Pratt. a. Apply fault at the Pratt 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
51	FLT51-1PH	<i>Single phase fault and sequence like previous</i>
52	FLT52-3PH	3 phase fault on the Pratt (539687) to Sawyer (539649) 115kV line, near Pratt. a. Apply fault at the Pratt 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
53	FLT53-1PH	<i>Single phase fault and sequence like previous</i>



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Cont. No.	Cont. Name	SPP fault contingencies
54	FLT54-3PH	3 phase fault on the Medicine Lodge (539673) to Sun City (539697) 115kV line, near Medicine Lodge. a. Apply fault at the Medicine Lodge 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
55	FLT55-1PH	<i>Single phase fault and sequence like previous</i>
56	FLT56-3PH	3 phase fault on the GEN-2008-047 (580500) to GEN-2007-040 Tap (531000) 345kV line, near GEN-2007-040 Tap. a. Apply fault at the GEN-2007-040 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
57	FLT57-1PH	<i>Single phase fault and sequence like previous</i>
58	FLT58-3PH	3 phase fault on the Spearville (531469) to Mullergren (100321) 345kV lines ckt 1 & 2, near Spearville. a. Apply fault at the Spearville 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
59	FLT59-3PH	3 phase fault on the Medicine Lodge (765342) to Wichita (532796) 345kV lines ckt 1 & 2, near Medicine Lodge. a. Apply fault at the Medicine Lodge 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
60	FLT60-3PH	3 phase fault on the Medicine Lodge (765342) to Wichita (532796) 345kV lines ckt 1, near Medicine Lodge. a. Apply fault at the Medicine Lodge 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
61	FLT61-3PH	3 phase fault on one of the GEN-2011-023 (582023) to Comanche (765341) 345kV line, near GEN-2011-023. a. Apply fault at the GEN-2011-023 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
62	FLT62-1PH	<i>Single phase fault and sequence like previous</i>
63	FLT63-3PH	3 phase fault on one of the GEN-2011-023 (582023) to Spearville (531469) 345kV line, near GEN-2011-023. a. Apply fault at the GEN-2011-023 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
64	FLT64-1PH	<i>Single phase fault and sequence like previous</i>

Single line to ground faults were simulated in a manner consistent with currently accepted practices, that is to assume that a single line to ground will cause a voltage drop at the fault location of 60% of nominal.

The prior queued projects monitored are listed in Table 6.2.



**Table 6.2: Prior queued wind farm projects monitored**

<b>Request</b>	<b>Size (MW)</b>	<b>Wind Turbine Model</b>	<b>Point of Interconnection</b>
GEN-2001-039A	105	Clipper 2.5MW	Tap on Judson Large – Greensburg 115kV line (579025)
GEN-2002-025A	150	GE 1.5 MW	Spearville 230kV (539695)
GEN-2004-014	154.5	GE 1.5 MW	Spearville 230kV (539695)
GEN-2005-012	250.7	Siemens 2.3MW	Spearville 345kV (531469)
GEN-2006-006	205.5	GE 1.5 MW	Spearville 345kV (531469)
GEN-2006-021	100	Clipper 2.5MW	Tap on Harper – Medicine Lodge 138kV line (539638)
GEN-2006-022	150	Clipper 2.5MW	Pratt 115kV (539687)
GEN-2007-038	200	Clipper 2.5MW	Spearville 345kV (531469)
GEN-2008-018	405	GE 1.5 MW	Finney 345kV (523853)
GEN-2007-040	200.1	Siemens 2.3MW	Tap on Holcomb – Spearville 345kV line (531000)
GEN-2008-079	99.5	G.E. 1.5 MW & 1.6MW	Tap on Cudahy – Judson Large 115kV line (573029)
GEN-2008-124	200.1	Siemens 2.3MW	Spearville 345kV (531469)
GEN-2010-009	165.6	Siemens SWT 2.3MW	Tap on Holcomb – Spearville 345kV line (531000)
GEN-2010-015	200.1	Siemens SWT 2.3MW	Spearville 345kV (531469)
GEN-2010-045	197.8	Siemens 2.3MW	Tap on Holcomb – Spearville 345kV line (531000)
GEN-2010-049	49.6	GE 1.6MW	Pratt 115kV (539687)
GEN-2010-052	301.3	Siemens 2.3MW	Finney 345kV (523853)
GEN-2010-053	199.8	Vestas V90 1.8MW	Comanche 345kV (765341)

Table 6.3 through Table 6.5 listed voltage and frequency relay settings were used to evaluate fault ride-through capability of WTGs in transient stability analysis.



**Table 6.3: Vestas V90, 1.8 MW Protection Settings (based on Vestas Generic Model Dynamic Data Template for PSS/E Model revision 7.2).**

Relay Type	Trip Setting (unit)	Time Delay (sec)
Undervoltage	0.90 (pu)	60
Undervoltage	0.85 (pu)	0.4
Undervoltage	0.75 (pu)	0.0001
Overvoltage	1.10 (pu)	60
Overvoltage	1.35 (pu)	0.2
Overvoltage	1.20 (pu)	0.12
Underfrequency	56.4 (Hz)	0.2
Overfrequency	63.0 (Hz)	0.2

**Table 6.4: Siemens SWT 2.3 MW Protection Settings (PSS/E Model Version 1.3)**

Relay Type	Trip Setting	Time Setting (sec)
Undervoltage	0.85 (pu)	3.0
Undervoltage	0.40 (pu)	1.6
Undervoltage	0.15 (pu)	0.85
Overvoltage	1.2 (pu)	0.15
Overvoltage	1.10 (pu)	1.0
Underfrequency	57.0 (Hz)	10
Underfrequency	56.4 (Hz)	0.1
Overfrequency	62.4 (Hz)	0.1

**Table 6.5: GE 1.6xle Protection Settings**

Relay Type	Trip Setting	Time Delay (sec)
Undervoltage	0.75 (pu)	1.9
Undervoltage	0.50 (pu)	1.2
Undervoltage	0.30 (pu)	0.7
Undervoltage	0.15 (pu)	0.2
Overvoltage	1.15 (pu)	0.1
Overvoltage	1.10 (pu)	1.0
Underfrequency	56.5 (Hz)	0.02
Underfrequency	57.5 (Hz)	10.0
Overfrequency	61.5 (Hz)	30.0
Overfrequency	62.5 (Hz)	0.02



## **6.1 Stability Criteria**

Disturbances including three-phase and single-phase to ground faults should not cause synchronous and asynchronous plants to become unstable or disconnect from the transmission grid.

The criterion for synchronous generator stability as defined by NERC is:

“Power system stability is defined as that condition in which the difference of the angular positions of synchronous machine rotor becomes constant following an aperiodic system disturbance.”

Voltage magnitudes and frequencies at terminals of asynchronous generators should not exceed magnitudes and durations that will cause protection elements to operate. Furthermore, the response after the disturbance needs to be studied at the terminals of the machine to insure that there are no sustained oscillations in power output, speed, frequency, etc.

Voltage magnitudes and angles after the disturbance should settle to a constant and reasonable operating level. Frequencies should settle to the nominal 60 Hz power frequency.

## **6.2 Transient Stability Results**

Undisturbed runs of 20 seconds were performed with the summer and winter peak cases to verify proper initialization of dynamic models.

Transient stability analysis indicates that Group 3 will successfully ride-through each N-1 and N-2 fault contingency specified by SPP and the nearby areas will retain angular, frequency and voltage stability. Group 3 can successfully interconnect into the transmission system at the desired location without reduction in output power.

**Table 6.6: Summary of Transient Stability Results**

<b>Cont. No.</b>	<b>Cont. Name</b>	<b>Summer Peak 2010/2011</b>	<b>Winter Peak 2010/2011</b>
1	FLT01-3PH	STABLE	STABLE
2	FLT02-1PH	STABLE	STABLE
3	FLT03-3PH	STABLE	STABLE
4	FLT04-1PH	STABLE	STABLE



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<b>Cont. No.</b>	<b>Cont. Name</b>	<b>Summer Peak 2010/2011</b>	<b>Winter Peak 2010/2011</b>
5	FLT05-3PH	STABLE	STABLE
6	FLT06-1PH	STABLE	STABLE
7	FLT07-3PH	STABLE	STABLE
8	FLT08-1PH	STABLE	STABLE
9	FLT09-3PH	STABLE	STABLE
10	FLT10-3PH	STABLE	STABLE
11	FLT11-1PH	STABLE	STABLE
12	FLT12-3PH	STABLE	STABLE
13	FLT13-1PH	STABLE	STABLE
14	FLT14-3PH	STABLE	STABLE
15	FLT15-1PH	STABLE	STABLE
16	FLT16-3PH	STABLE	STABLE
17	FLT17-1PH	STABLE	STABLE
18	FLT18-3PH	STABLE	STABLE
19	FLT19-1PH	STABLE	STABLE
20	FLT20-3PH	STABLE	STABLE
21	FLT21-3PH	STABLE	STABLE
22	FLT22-1PH	Not a Valid Contingency	Not a Valid Contingency
23	FLT23-3PH	Not a Valid Contingency	Not a Valid Contingency
24	FLT24-1PH	STABLE	STABLE
25	FLT25-3PH	STABLE	STABLE
26	FLT26-1PH	STABLE	STABLE
27	FLT27-3PH	STABLE	STABLE
28	FLT28-1PH	STABLE	STABLE
29	FLT29-3PH	STABLE	STABLE
30	FLT30-1PH	STABLE	STABLE
31	FLT31-3PH	STABLE	STABLE
32	FLT32-1PH	STABLE	STABLE
33	FLT33-3PH	STABLE	STABLE
34	FLT34-1PH	STABLE	STABLE
35	FLT35-3PH	STABLE	STABLE
36	FLT36-1PH	STABLE	STABLE
37	FLT37-3PH	STABLE	STABLE



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<b>Cont. No.</b>	<b>Cont. Name</b>	<b>Summer Peak 2010/2011</b>	<b>Winter Peak 2010/2011</b>
38	FLT38-1PH	STABLE	STABLE
39	FLT39-3PH	STABLE	STABLE
40	FLT40-1PH	STABLE	STABLE
41	FLT41-3PH	STABLE	STABLE
42	FLT42-1PH	STABLE	STABLE
43	FLT43-3PH	STABLE	STABLE
44	FLT44-3PH	STABLE	STABLE
45	FLT45-1PH	STABLE	STABLE
46	FLT46-3PH	STABLE	STABLE
47	FLT47-1PH	STABLE	STABLE
48	FLT48-3PH	STABLE	STABLE
49	FLT49-3PH	STABLE	STABLE
50	FLT50-3PH	STABLE	STABLE
51	FLT51-1PH	STABLE	STABLE
52	FLT52-3PH	STABLE	STABLE
53	FLT53-1PH	STABLE	STABLE
54	FLT54-3PH	STABLE	STABLE
55	FLT55-1PH	STABLE	STABLE
56	FLT56-3PH	STABLE	STABLE
57	FLT57-1PH	STABLE	STABLE
58	FLT58-3PH	STABLE	STABLE
59	FLT59-3PH	STABLE	STABLE
60	FLT60-3PH	STABLE	STABLE
61	FLT61-3PH	STABLE	STABLE
62	FLT62-1PH	STABLE	STABLE
63	FLT63-3PH	STABLE	STABLE
64	FLT64-1PH	STABLE	STABLE



## 7. CONCLUSIONS AND RECOMMENDATIONS

Power Factor analysis for the study projects revealed that the generating facilities must meet the following requirements when the Group 3 projects are operating at 100% output power.

- GEN-2010-029 is required to maintain a power factor of 95% lagging to 99.97% leading at the POI.
- GEN-2011-016 is required to maintain a power factor up to 95% lagging at the POI. There is no leading power factor requirement.
- GEN-2011-008 is required to maintain a power factor up to 95% lagging at the POI. There is no leading power factor requirement.
- GEN-2011-017 is required to maintain a power factor of 95% lagging to 99% leading at the POI.
- GEN-2011-023 is required to maintain a power factor of 99.10% leading at the POI. There is no lagging power factor requirement.

Transient analysis results indicate that definitive Impact Study DISIS-2011-001-1 (Group 3) can successfully interconnect into the transmission system at 100% output power and at the desired location. Transient stability analysis indicated that Group 3 and prior queued projects will ride-through each fault contingency specified by SPP and the nearby areas will retain angular, frequency and voltage stability.





**L: Stability Study for Group 4**

- No requests were located in the cluster group

**M: Stability Study for Group 5**

- No requests were located in the cluster group

**N: Stability Study for Group 6**

# SPP DISIS-2011-001-R1 Group 6 Definitive Impact Restudy

Draft Report for  
Southwest Power Pool

Prepared by:  
Excel Engineering, Inc.

November 14, 2011

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## 0. Certification

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the Laws of the States of **New Mexico and Texas**.

William Quaintance  
New Mexico License Number 19505  
Texas License Number 104268

Minnesota Excel Engineering  
Texas Firm License Number 7970

## 1. Background and Scope

The DISIS-2011-001 Group 6 Definitive Impact Restudy is a generation interconnection study performed by Excel Engineering, Inc. for its non-affiliated client, Southwest Power Pool (SPP). Its purpose is to study the impacts of interconnecting the projects shown in Table 1-1. The in-service date assumed for the generation addition was 2011.

**Table 1-1. Interconnection Requests Evaluated in this Study**

Request	Size	Generator Type	Point of Interconnection	Gen Buses
GEN-2010-020	20	Emerson Inverter	Roswell 115kV (527564)	580101
GEN-2010-058	20.8	Emerson Inverter	Chaves County 115kV (527482)	581158
GEN-2011-025	80	GE 1.6MW	Tap on Floyd County – Crosby County 115kV line (581137)	581140
ASGI-2011-003	10	Sany 2.0MW	Hendricks 69kV (525943)	582600

The prior-queued requests shown in Table 1-2 were included in this study and dispatched at 100% of rated capacity.

The study included stability analysis of each proposed interconnection request. Contingencies that resulted in a prior-queued project tripping off-line, if any, were re-run with the prior-queued project’s voltage and frequency tripping relays disabled. A power factor analysis was performed for the wind and solar farms in Table 1-1.

ATC (Available Transfer Capability) studies were not performed as part of this study. These studies will be required at the time transmission service is actually requested. Additional transmission upgrades may be required based on that analysis.

Study assumptions in general have been based on Excel’s knowledge of the electric power system and on the specific information and data provided by SPP. The accuracy of the conclusions contained within this study is sensitive to the assumptions made with respect to generation additions and transmission improvements being contemplated. Changes in the assumptions of the timing of other generation additions or transmission improvements will affect this study’s conclusions.

**Table 1-2. Nearby Interconnection Requests Already in the Queue**

Request	Size	Generator Type	Point of Interconnection	Gen Buses
GEN-2001-033	180.8	Mitsubishi 1000	San Juan Mesa 230kV (524885)	579007 579009 579011 579013 579015 579017 579019 579021
GEN-2001-036	80	CIMTR	Tap on Curry – Tucumcari 115kV line (524502)	524485
GEN-2006-018	169.2	GENSAL	Tuco 230kV (525830)	525841 525842 525843
GEN-2008-008	60	GE 1.5MW	Graham 69kV (526693)	579388
GEN-2008-009	60	GE 1.5MW	San Juan Mesa 230kV (524885)	579392 579393
GEN-2008-014	149.4	Vestas V90	Tap on Tuco – Oklaunion 345kV line (560813)	579409
GEN-2008-016	248.4	Vestas V90	Grassland 230kV (526677)	579413 579414
GEN-2008-022	300	GE 2.5MW	Tap on Eddy County – Tolk 345kV line (577104)	577100 577110 577120
GEN-2009-067S	20	STCNPG (usrmdl)	Seven Rivers 69kV (528093)	575153
GEN-2010-006	205W 180S	GENROU	Jones_bus2 230kV(526338)	577300
ASGI-2010-010	42.2	GENROU	Lovington 115kV (528334)	575160
ASGI-2010-020	50	Nordex	Tap LE-Tatum – LE-Crossroads 69kV line (580084)	580088
ASGI-2010-021	36.6	Vestas 1.8/ Mitsubishi 2.4MW	Tap LE-Saundrtp – LE-Anderson 69kV line (580090)	580082 580083
ASGI-2011-001	28.8	Vestas 1.8MW	Lovington 115kV (528334)	575161
GEN-2010-046	56.16	GENSAL	Tuco 230kV (525830)	580043

## **2. Executive Summary**

The DISIS-2011-001 Group 6 Definitive Impact Study evaluated the impacts of interconnecting the Table 1-1 study projects to the SPP transmission system.

No stability problems were found for any of the simulated faults. All study projects and prior-queued projects remained stable and on-line following all faults.

Final power factor and capacitor requirements for the Group 6 projects are listed in Table 4-2.

With the assumptions and upgrades described in this report, DISIS-2011-001 Group 6 should be able to connect without causing any stability problems on the SPP transmission grid.

Any change in system or wind farm models or assumptions could change these results.

### **3. Study Development and Assumptions**

#### **3.1 Simulation Tools**

The Siemens Power Technologies, Inc. PSS/E power system simulation program Version 30.3.3 was used in this study.

#### **3.2 Models Used**

SPP provided its latest stability database cases for both summer and winter peak seasons. These cases included the study and prior-queued projects. Power flow one-line diagrams of the study projects are shown in Figure 3-1 through Figure 3-4.

The study plant transmission lines and substation transformers are modeled explicitly in the power flow cases. The wind and solar collector systems and generators are modeled as a single equivalent for each substation transformer. Steady-state and dynamic model data for the study plants are given in Appendix D.

One-line diagrams of the SPP 345 and 230 kV systems in the Group 6 area are shown in Appendix E.

No special modeling is required of line relays in these cases, except for the special modeling related to the wind and solar generation tripping.

#### **3.3 Monitored Facilities**

All generators and transmission buses in Areas 520, 524, 525, 526, 531, 534, and 536 were monitored.

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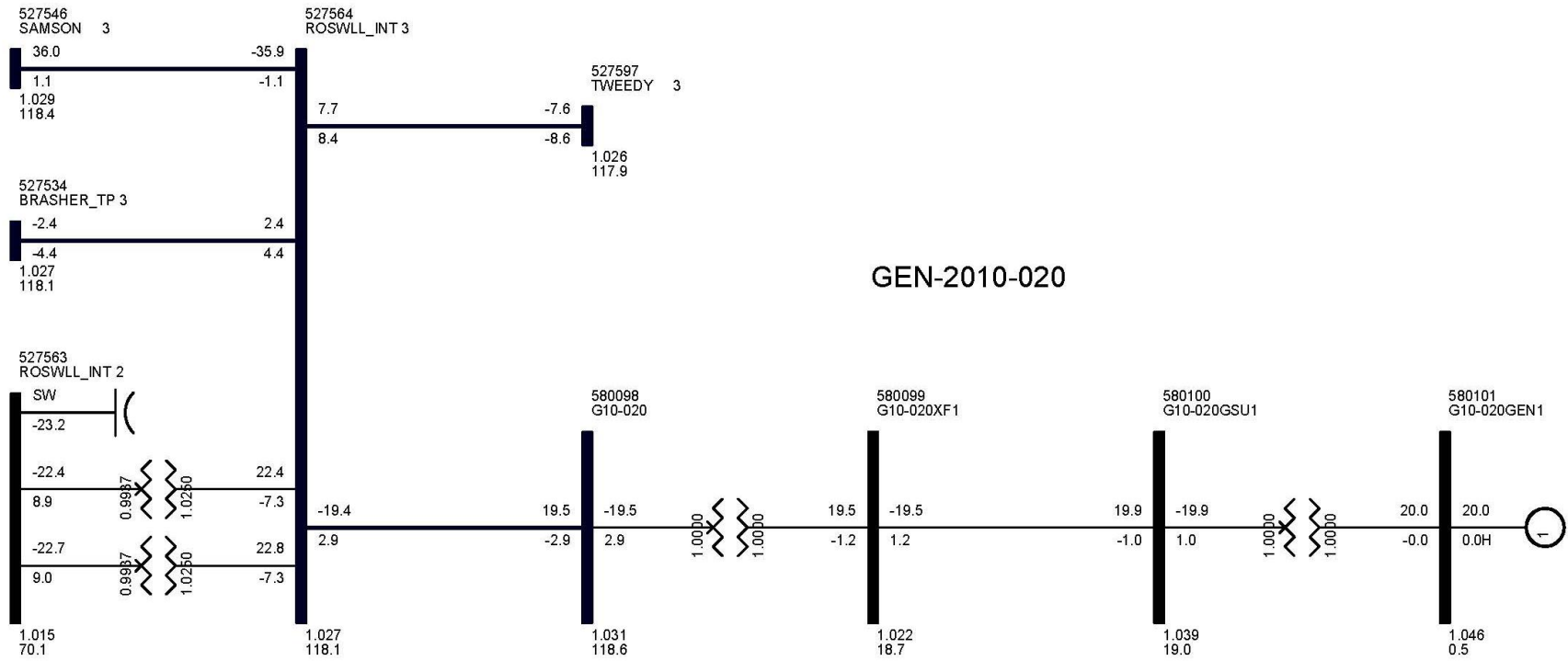


Figure 3-1. Power Flow One-line for GEN-2010-020

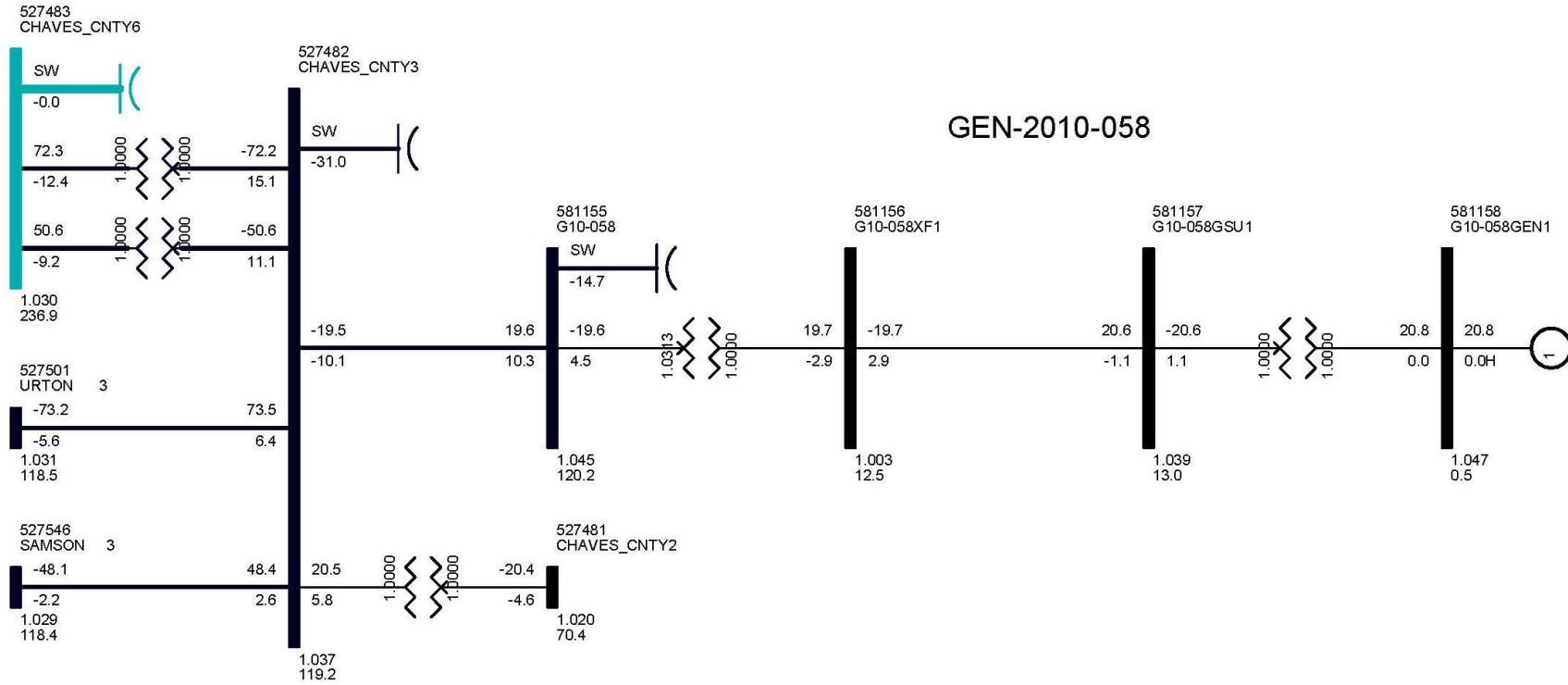


Figure 3-2. Power Flow One-line for GEN-2010-058

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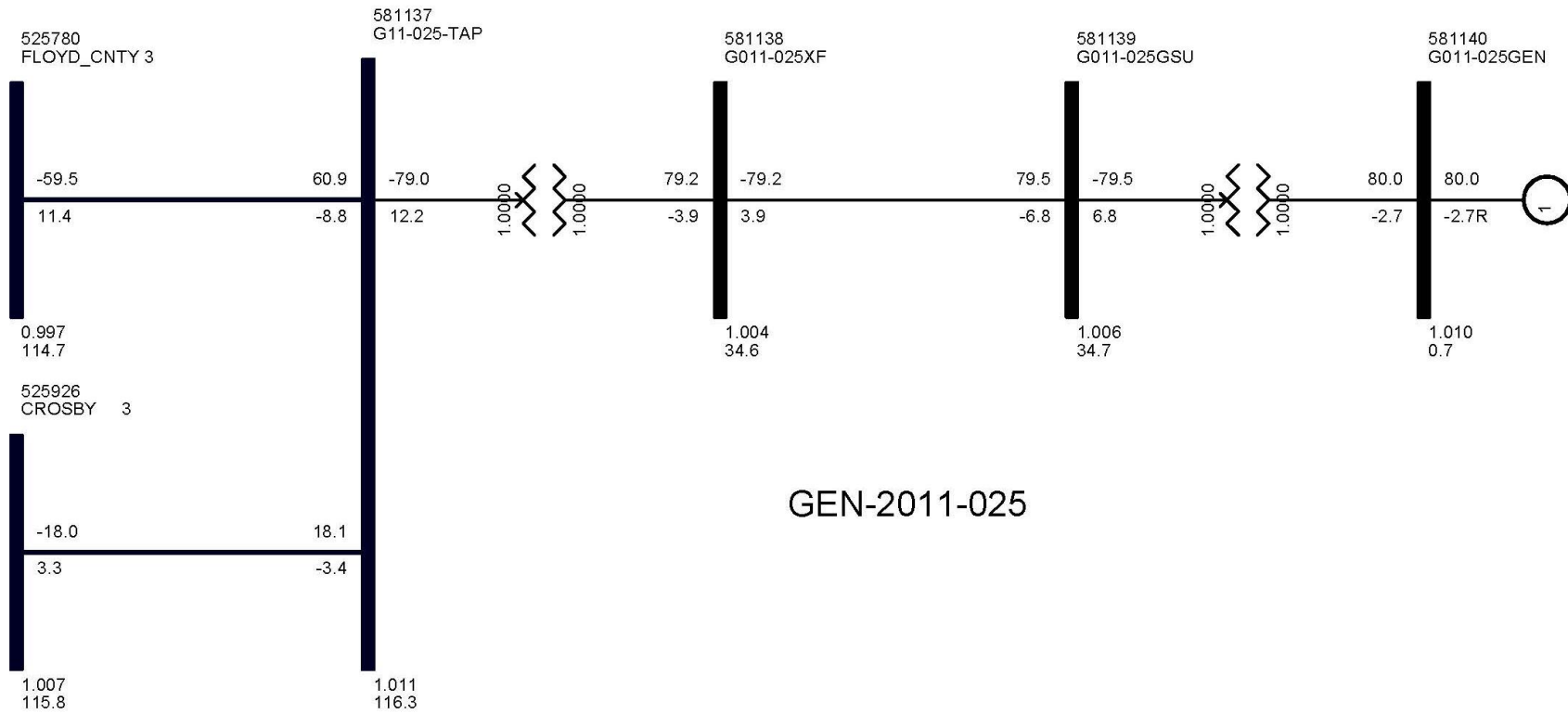


Figure 3-3. Power Flow One-line for GEN-2011-025



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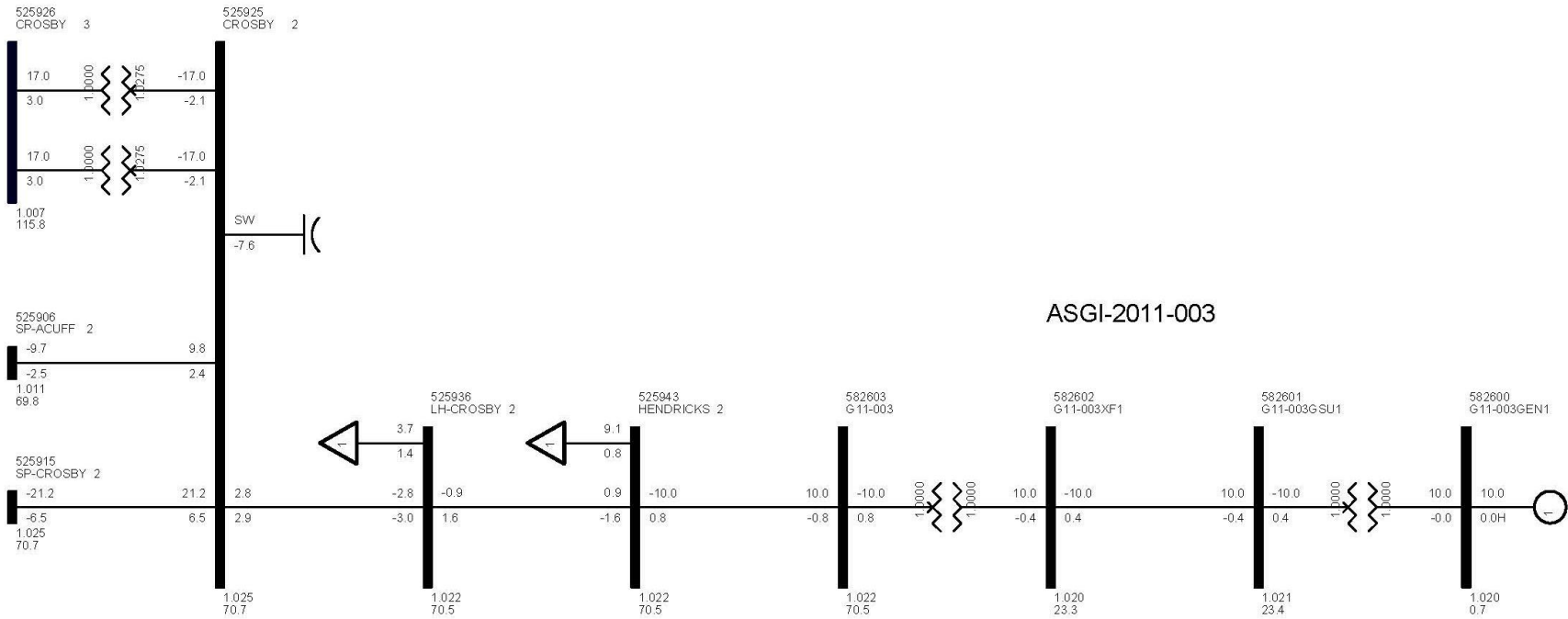


Figure 3-4. Power Flow One-line for ASGI-2011-003

### **3.4 Performance Criteria**

Any wind generators must comply with FERC Order 661A on low voltage ride through for wind farms. Therefore, the wind generators should not trip off line for faults for under voltage relay actuation. If a wind generator trips off line, an appropriately sized SVC or STATCOM device may need to be specified to keep the wind generator on-line for the fault. SPP was consulted to determine if the addition of an SVC or STATCOM is warranted for the specific condition.

Contingencies that resulted in a prior-queued project tripping off-line, if any, were re-run with the prior-queued project's voltage and frequency tripping disabled to check for stability issues.

### **3.5 Performance Evaluation Methods**

A power factor analysis was performed for all study projects that are wind farms. The power factor analysis consisted of modeling a var generator in each wind farm holding a voltage schedule at the POI. The voltage schedule was set to the higher of the voltage with the wind farm off-line or 1.0 per unit.

If the required power factor at the POI is beyond the capability of the studied wind turbines, then capacitor banks would be considered. Factors used in sizing capacitor banks would include two requirements of FERC Order 661A: the ability of the wind farm to ride through low voltage with and without capacitor banks and the ability of the wind farm to recover to pre-fault voltage. If a wind generator trips on high voltage, a leading power factor may be required.

ATC studies were not performed as part of this study. These studies will be required at the time transmission service is actually requested. Additional transmission facilities may be required based on subsequent ATC analysis.

Stability analysis was performed for each proposed interconnection request. Faults were simulated on transmission lines at the POIs and on other nearby transmission equipment. The faults in Table 3-1 were run for each case (three phase and single phase as noted).

**Table 3-1. Fault Definitions for DISIS-2011-001 Group 6**

Cont. No.	Contingency Name	Contingency Description
1	FLT01-3PH	3 phase fault on the Roswell (527564) to Brasher Tap (527534) 115kV line, near Roswell. a. Apply fault at the Roswell 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
2	FLT02-1PH	Single phase fault and sequence like previous
3	FLT03-3PH	3 phase fault on the Roswell (527564) to Tweedy (527597) 115kV line, near Roswell. a. Apply fault at the Roswell 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
4	FLT04-1PH	Single phase fault and sequence like previous
5	FLT05-3PH	3 phase fault on Roswell 115kV (527564) to 69kV (527563) transformer #2, near the 115kV bus. a. Apply fault at the Roswell 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
6	FLT06-3PH	3 phase fault on the Roswell (527564) to Samson (527546) 115kV line, near Roswell. a. Apply fault at the Roswell 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
7	FLT07-1PH	Single phase fault and sequence like previous
8	FLT08-3PH	3 phase fault on Chaves County 115kV (527482) to 230 kV (527483) transformer #1, near the 115kV bus. a. Apply fault at the Chaves County 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
9	FLT09-3PH	3 phase fault on the Chaves County (527482) to Urton (527501) 115kV line, near Chaves County. a. Apply fault at the Chaves County 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
10	FLT10-1PH	Single phase fault and sequence like previous
11	FLT11-3PH	3 phase fault on the Chaves County (527482) to Samson (527546) 115kV line, near Chaves County. a. Apply fault at the Chaves County 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
12	FLT12-1PH	Single phase fault and sequence like previous
13	FLT13-3PH	3 phase fault on the Chaves County (527483) to Eddy County (527800) 230kV line, near Chaves County. a. Apply fault at the Chaves County 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
14	FLT14-1PH	Single phase fault and sequence like previous

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Cont. No.	Contingency Name	Contingency Description
15	FLT15-3PH	3 phase fault on the Tolk 345kV (525549) to 230kV (525543) transformer, near the 345kV bus. a. Apply fault at the Tolk 345kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
16	FLT16-3PH	3 phase fault on the Tolk Tap (525543) to Tolk East (525524) 230kV line, near Tolk Tap. a. Apply fault at the Tolk Tap 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
17	FLT17-1PH	Single phase fault and sequence like previous
18	FLT18-3PH	3 phase fault on the Roosevelt South (524911) to Tolk East (525524) 230kV line, near Roosevelt South. a. Apply fault at the Roosevelt South 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
19	FLT19-1PH	Single phase fault and sequence like previous
20	FLT20-3PH	3 phase fault on the Tolk East (525524) to Plant X (525481) 230kV line #2, near Tolk East. a. Apply fault at the Tolk East 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
21	FLT21-1PH	Single phase fault and sequence like previous
22	FLT22-3PH	3 phase fault on the Tolk East (525524) to Tuco (525830) 230kV line, near Tolk East. a. Apply fault at the Tolk East 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
23	FLT23-1PH	Single phase fault and sequence like previous
24	FLT24-3PH	3 phase fault on the Tolk Tap (525543) to Tolk West (525531) 230kV line, near Tolk Tap. a. Apply fault at the Tolk Tap 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
25	FLT25-1PH	Single phase fault and sequence like previous
26	FLT26-3PH	3 phase fault on the Lamb County (525637) to Tolk West (525531) 230kV line, near Lamb County. a. Apply fault at the Lamb County 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
27	FLT27-1PH	Single phase fault and sequence like previous
28	FLT28-3PH	3 phase fault on the Yoakum (526935) to Tolk West (525531) 230kV line, near Yoakum. a. Apply fault at the Yoakum 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
29	FLT29-1PH	Single phase fault and sequence like previous

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Cont. No.	Contingency Name	Contingency Description
30	FLT30-3PH	3 phase fault on the Deaf Smith (524623) to Plant X (525481) 230kV line, near Deaf Smith. a. Apply fault at the Deaf Smith 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
31	FLT31-1PH	Single phase fault and sequence like previous
32	FLT32-3PH	3 phase fault on the Sundown (526435) to Plant X (525481) 230kV line, near Sundown. a. Apply fault at the Sundown 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
33	FLT33-1PH	Single phase fault and sequence like previous
34	FLT34-3PH	3 phase fault on the Plant X (525481) to GEN-2006-039 Tap (560009) 230kV line, near Plant X. a. Apply fault at the Plant X 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
35	FLT35-1PH	Single phase fault and sequence like previous
36	FLT36-3PH	3 phase fault on the Tuco (525830) to Swisher (525213) 230kV line, near Tuco. a. Apply fault at the Tuco 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
37	FLT37-1PH	Single phase fault and sequence like previous
38	FLT38-3PH	3 phase fault on the Tuco (525830) to Jones Bus1 (526337) 230kV line, near Tuco. a. Apply fault at the Tuco 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
39	FLT39-1PH	Single phase fault and sequence like previous
40	FLT40-3PH	3 phase fault on Tuco 230kV (525830) to 345kV (525832) transformer #1, near the 230kV bus. a. Apply fault at the Tuco 230kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
41	FLT41-3PH	3 phase fault on the Tuco (525832) to Border (525835) 345kV line, near Tuco. a. Apply fault at the Tuco 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
42	FLT42-1PH	Single phase fault and sequence like previous
43	FLT43-3PH	3 phase fault on the GEN-2008-014 Tap (560813) to Tuco (525832) 345kV line, near GEN-2008-014 Tap. a. Apply fault at the GEN-2008-014 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
44	FLT44-1PH	Single phase fault and sequence like previous

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Cont. No.	Contingency Name	Contingency Description
45	FLT45-3PH	3 phase fault on the Grassland 230kV (526677) to 115kV (526676) transformer, near the 230kV bus. a. Apply fault at the Grassland 230kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
46	FLT46-3PH	3 phase fault on the GEN-2011-025 Tap (581137) to Floyd County (525780) 115kV line, near GEN-2011-025 Tap. a. Apply fault at the GEN-2011-025 Tap 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
47	FLT47-1PH	Single phase fault and sequence like previous
48	FLT48-3PH	3 phase fault on the GEN-2011-025 Tap (581137) to Crosby County (525926) 115kV line, near GEN-2011-025 Tap. a. Apply fault at the GEN-2011-025 Tap 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
49	FLT49-1PH	Single phase fault and sequence like previous
50	FLT50-3PH	3 phase fault on one of the Crosby County 69kV (525925) to 115kV (525926) transformers, near the 69kV bus a. Apply fault at the Crosby County 69kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
51	FLT51-3PH	3 phase fault on the Crosby County (525926) to Lubbock East (526298) 115kV line, near Crosby County. a. Apply fault at the Crosby County 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
52	FLT52-1PH	Single phase fault and sequence like previous
53	FLT53-3PH	3 phase fault on the Lubbock East (526299) to Jones Bus2 (526338) 230kV line, near Lubbock East. a. Apply fault at the Lubbock East 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
54	FLT54-1PH	Single phase fault and sequence like previous
55	FLT55-3PH	3 phase fault on the Floyd County (525780) to Cox (525326) 115kV line, near Floyd County. a. Apply fault at the Floyd County 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
56	FLT56-1PH	Single phase fault and sequence like previous
57	FLT57-3PH	3 phase fault on one of the Floyd County 115kV (525780) to 69 kV (525779) transformers, near the 115kV bus a. Apply fault at the Floyd County 115kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.

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Cont. No.	Contingency Name	Contingency Description
58	FLT58-3PH	3 phase fault on the Floyd County (525780) to Tuco (525828) 115kV line, near Floyd County. a. Apply fault at the Floyd County 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
59	FLT59-1PH	Single phase fault and sequence like previous
60	FLT60-3PH	3 phase fault on the Potter (523961) to GEN-2005-017 (579118) 345kV line, near Potter a. Apply fault at the Potter 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
61	FLT61-1PH	Single phase fault and sequence like previous
62	FLT62-3PH	3 phase fault on the Eddy Co 230kV (527800) to 345kV (527802) transformer, near the 345kV bus. a. Apply fault at the Eddy Co 345kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
63	FLT63-3PH	3 phase fault on the LE-Lovington (528334) to LEA County (527848) 115kV line, near LE Lovington a. Apply fault at the Lovington 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
64	FLT64-1PH	Single phase fault and sequence like previous
65	FLT65-3PH	3 phase fault on the LE-Lovington (528334) to LEA Waits (528325) 115kV line, near LE Lovington a. Apply fault at the Lovington 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
66	FLT66-1PH	Single phase fault and sequence like previous
67	FLT67-3PH	3 phase fault on the Conestoga (560029) to Finney (523853) 345kV line, near Finney. a. Apply fault at the Finney 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.

## **4. Results and Observations**

### ***4.1 Stability Analysis Results***

Table 4-1 summarizes the final results. Figure 4-1 through Figure 4-8 show representative summer peak season plots for faults at the POI's of the study projects. Complete sets of plots for both summer and winter peak seasons for each fault and each project are included in Appendices A and B.

All of the simulations performed well. No plants tripped and none went unstable for any of the simulated faults.



**Table 4-1. Summary of Stability Results**

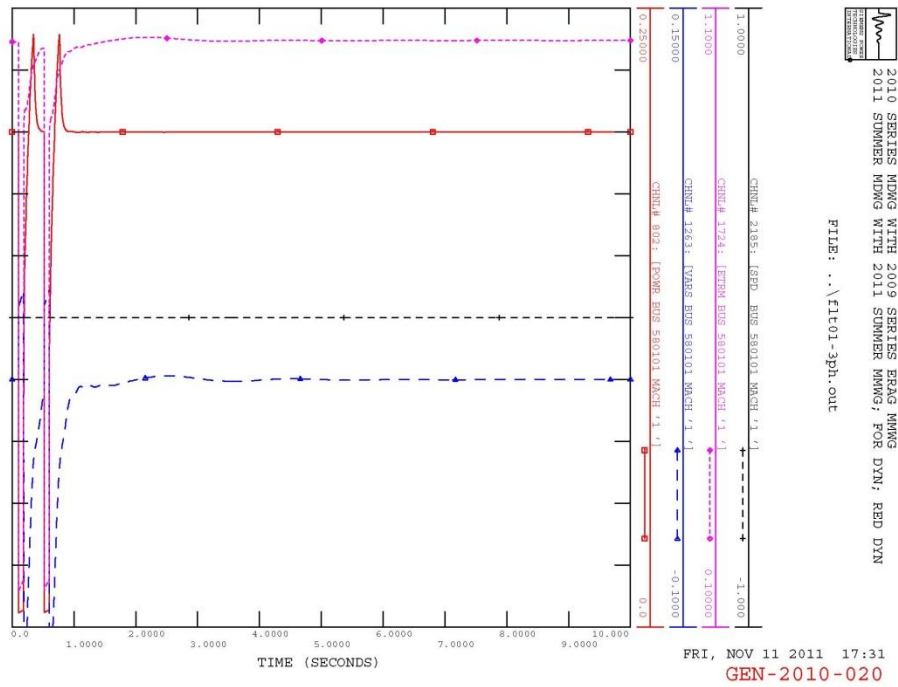
Cont. No.	Contingency Name	Contingency Description	Summer Peak Results	Winter Peak Results
1	FLT01-3PH	3 phase fault on the Roswell (527564) to Brasher Tap (527534) 115kV line, near Roswell.	OK	OK
2	FLT02-1PH	Single phase fault and sequence like previous	OK	OK
3	FLT03-3PH	3 phase fault on the Roswell (527564) to Tweedy (527597) 115kV line, near Roswell.	OK	OK
4	FLT04-1PH	Single phase fault and sequence like previous	OK	OK
5	FLT05-3PH	3 phase fault on Roswell 115kV (527564) to 69kV (527563) transformer #2, near the 115kV bus.	OK	OK
6	FLT06-3PH	3 phase fault on the Roswell (527564) to Samson (527546) 115kV line, near Roswell.	OK	OK
7	FLT07-1PH	Single phase fault and sequence like previous	OK	OK
8	FLT08-3PH	3 phase fault on Chaves County 115kV (527482) to 230 kV (527483) transformer #1, near the 115kV bus.	OK	OK
9	FLT09-3PH	3 phase fault on the Chaves County (527482) to Urton (527501) 115kV line, near Chaves County.	OK	OK
10	FLT10-1PH	Single phase fault and sequence like previous	OK	OK
11	FLT11-3PH	3 phase fault on the Chaves County (527482) to Samson (527546) 115kV line, near Chaves County.	OK	OK
12	FLT12-1PH	Single phase fault and sequence like previous	OK	OK
13	FLT13-3PH	3 phase fault on the Chaves County (527483) to Eddy County (527800) 230kV line, near Chaves County.	OK	OK
14	FLT14-1PH	Single phase fault and sequence like previous	OK	OK
15	FLT15-3PH	3 phase fault on the Tolk 345kV (525549) to 230kV (525543) transformer, near the 345kV bus.	OK	OK
16	FLT16-3PH	3 phase fault on the Tolk Tap (525543) to Tolk East (525524) 230kV line, near Tolk Tap.	OK	OK
17	FLT17-1PH	Single phase fault and sequence like previous	OK	OK
18	FLT18-3PH	3 phase fault on the Roosevelt South (524911) to Tolk East (525524) 230kV line, near Roosevelt South.	OK	OK
19	FLT19-1PH	Single phase fault and sequence like previous	OK	OK
20	FLT20-3PH	3 phase fault on the Tolk East (525524) to Plant X (525481) 230kV line #2, near Tolk East.	OK	OK
21	FLT21-1PH	Single phase fault and sequence like previous	OK	OK
22	FLT22-3PH	3 phase fault on the Tolk East (525524) to Tuco (525830) 230kV line, near Tolk East.	OK	OK
23	FLT23-1PH	Single phase fault and sequence like previous	OK	OK
24	FLT24-3PH	3 phase fault on the Tolk Tap (525543) to Tolk West (525531) 230kV line, near Tolk Tap.	OK	OK
25	FLT25-1PH	Single phase fault and sequence like previous	OK	OK

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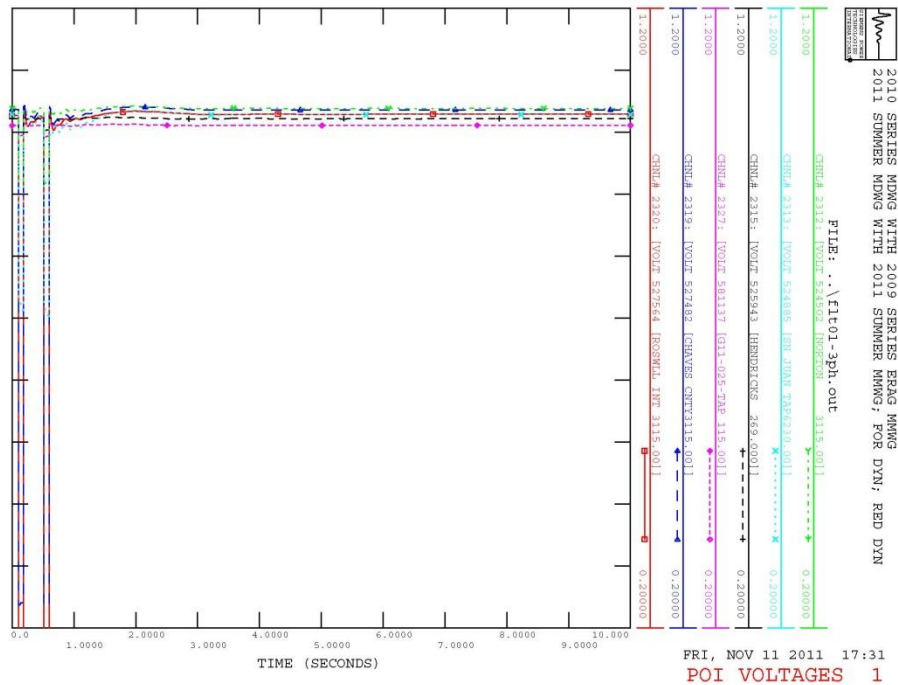
Cont. No.	Contingency Name	Contingency Description	Summer Peak Results	Winter Peak Results
26	FLT26-3PH	3 phase fault on the Lamb County (525637) to Tolk West (525531) 230kV line, near Lamb County.	OK	OK
27	FLT27-1PH	Single phase fault and sequence like previous	OK	OK
28	FLT28-3PH	3 phase fault on the Yoakum (526935) to Tolk West (525531) 230kV line, near Yoakum.	OK	OK
29	FLT29-1PH	Single phase fault and sequence like previous	OK	OK
30	FLT30-3PH	3 phase fault on the Deaf Smith (524623) to Plant X (525481) 230kV line, near Deaf Smith.	OK	OK
31	FLT31-1PH	Single phase fault and sequence like previous	OK	OK
32	FLT32-3PH	3 phase fault on the Sundown (526435) to Plant X (525481) 230kV line, near Sundown.	OK	OK
33	FLT33-1PH	Single phase fault and sequence like previous	OK	OK
34	FLT34-3PH	3 phase fault on the Plant X (525481) to GEN-2006-039 Tap (560009) 230kV line, near Plant X.	OK	OK
35	FLT35-1PH	Single phase fault and sequence like previous	OK	OK
36	FLT36-3PH	3 phase fault on the Tuco (525830) to Swisher (525213) 230kV line, near Tuco.	OK	OK
37	FLT37-1PH	Single phase fault and sequence like previous	OK	OK
38	FLT38-3PH	3 phase fault on the Tuco (525830) to Jones Bus1 (526337) 230kV line, near Tuco.	OK	OK
39	FLT39-1PH	Single phase fault and sequence like previous	OK	OK
40	FLT40-3PH	3 phase fault on Tuco 230kV (525830) to 345kV (525832) transformer #1, near the 230kV bus.	OK	OK
41	FLT41-3PH	3 phase fault on the Tuco (525832) to Border (525835) 345kV line, near Tuco.	OK	OK
42	FLT42-1PH	Single phase fault and sequence like previous	OK	OK
43	FLT43-3PH	3 phase fault on the GEN-2008-014 Tap (560813) to Tuco (525832) 345kV line, near GEN-2008-014 Tap.	OK	OK
44	FLT44-1PH	Single phase fault and sequence like previous	OK	OK
45	FLT45-3PH	3 phase fault on the Grassland 230kV (526677) to 115kV (526676) transformer, near the 230kV bus.	OK	OK
46	FLT46-3PH	3 phase fault on the GEN-2011-025 Tap (581137) to Floyd County (525780) 115kV line, near GEN-2011-025 Tap.	OK	OK
47	FLT47-1PH	Single phase fault and sequence like previous	OK	OK
48	FLT48-3PH	3 phase fault on the GEN-2011-025 Tap (581137) to Crosby County (525926) 115kV line, near GEN-2011-025 Tap.	OK	OK
49	FLT49-1PH	Single phase fault and sequence like previous	OK	OK
50	FLT50-3PH	3 phase fault on one of the Crosby County 69kV (525925) to 115kV (525926) transformers, near the 69kV bus	OK	OK
51	FLT51-3PH	3 phase fault on the Crosby County (525926) to Lubbock East (526298) 115kV line, near Crosby County.	OK	OK

SPP DISIS-2011-001-R1 Group 6 Definitive Impact Restudy

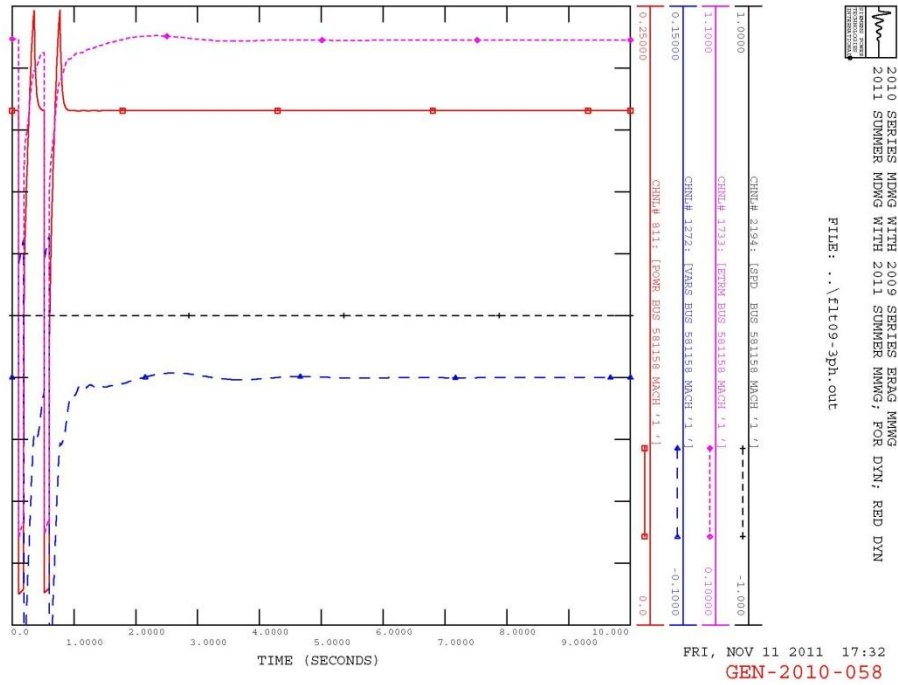
Cont. No.	Contingency Name	Contingency Description	Summer Peak Results	Winter Peak Results
52	FLT52-1PH	Single phase fault and sequence like previous	OK	OK
53	FLT53-3PH	3 phase fault on the Lubbock East (526299) to Jones Bus2 (526338) 230kV line, near Lubbock East.	OK	OK
54	FLT54-1PH	Single phase fault and sequence like previous	OK	OK
55	FLT55-3PH	3 phase fault on the Floyd County (525780) to Cox (525326) 115kV line, near Floyd County.	OK	OK
56	FLT56-1PH	Single phase fault and sequence like previous	OK	OK
57	FLT57-3PH	3 phase fault on one of the Floyd County 115kV (525780) to 69 kV (525779) transformers, near the 115kV bus	OK	OK
58	FLT58-3PH	3 phase fault on the Floyd County (525780) to Tuco (525828) 115kV line, near Floyd County.	OK	OK
59	FLT59-1PH	Single phase fault and sequence like previous	OK	OK
60	FLT60-3PH	3 phase fault on the Potter (523961) to GEN-2005-017 (579118) 345kV line, near Potter	OK	OK
61	FLT61-1PH	Single phase fault and sequence like previous	OK	OK
62	FLT62-3PH	3 phase fault on the Eddy Co 230kV (527800) to 345kV (527802) transformer, near the 345kV bus.	OK	OK
63	FLT63-3PH	3 phase fault on the LE-Lovington (528334) to LEA County (527848) 115kV line, near LE Lovington	OK	OK
64	FLT64-1PH	Single phase fault and sequence like previous	OK	OK
65	FLT65-3PH	3 phase fault on the LE-Lovington (528334) to LEA Waits (528325) 115kV line, near LE Lovington	OK	OK
66	FLT66-1PH	Single phase fault and sequence like previous	OK	OK
67	FLT67-3PH	3 phase fault on the Conestoga (560029) to Finney (523853) 345kV line, near Finney.	OK	OK



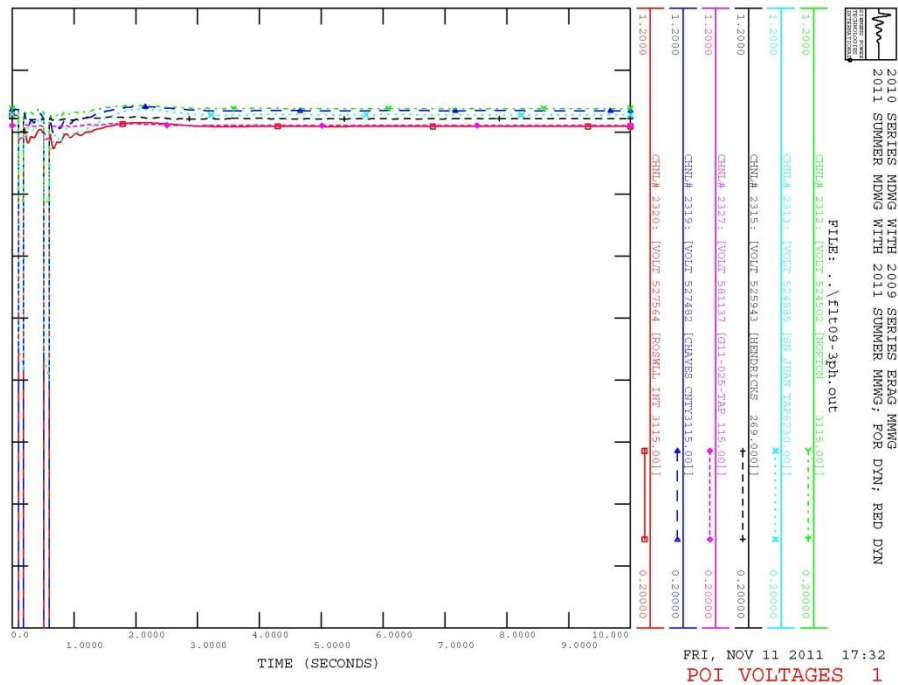
**Figure 4-1. GEN-2010-020 Plot for Fault 1 – 3-Phase Fault on the Roswell (527564) to Brasher Tap (527534) 115 kV line, near Roswell**



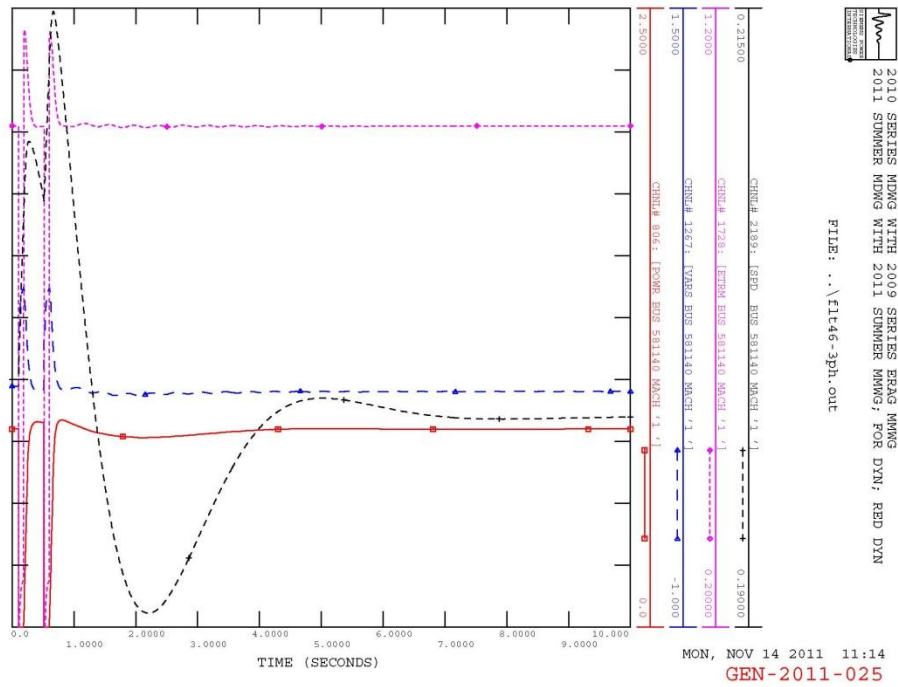
**Figure 4-2. POI Voltages for Fault 1 – 3-Phase Fault on the Roswell (527564) to Brasher Tap (527534) 115 kV line, near Roswell**



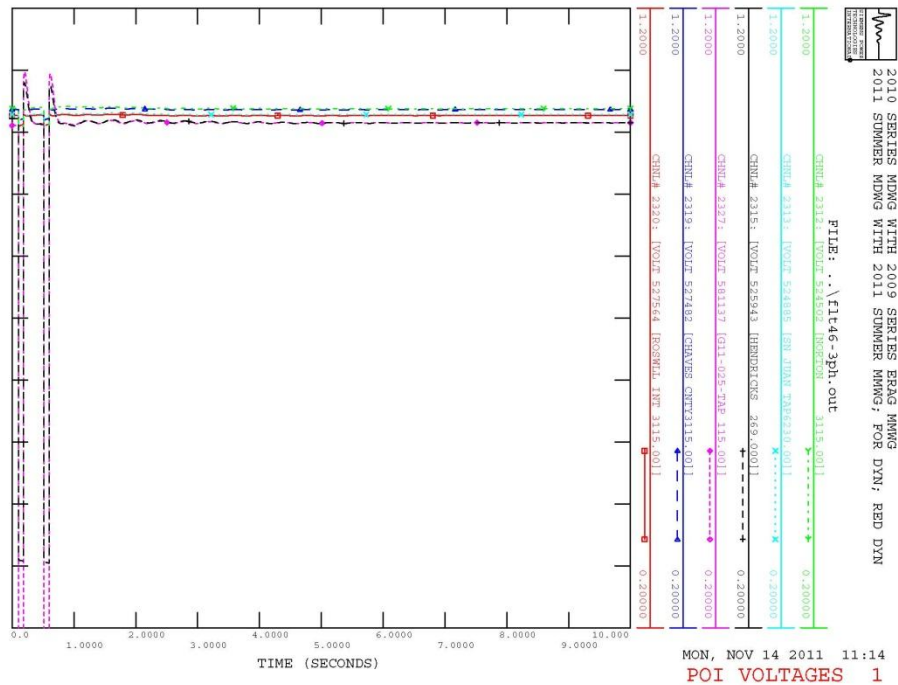
**Figure 4-3. GEN-2010-058 Plot for Fault 9 – 3-Phase Fault on the Chaves County (527482) to Urton (527501) 115 kV line, near Chaves County**



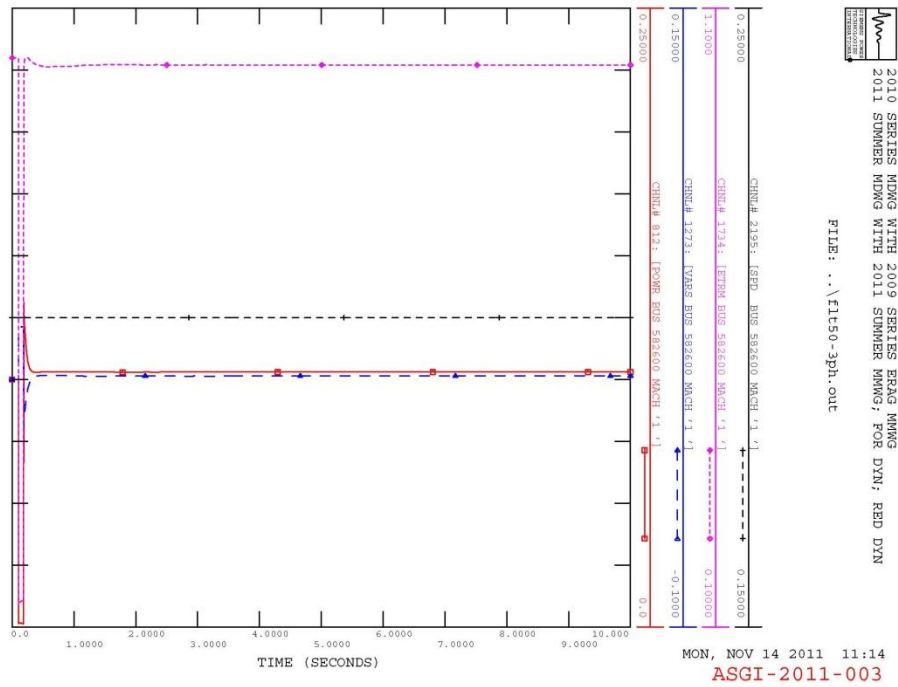
**Figure 4-4. POI Voltages for Fault 9 – 3-Phase Fault on the Chaves County (527482) to Urton (527501) 115 kV line, near Chaves County**



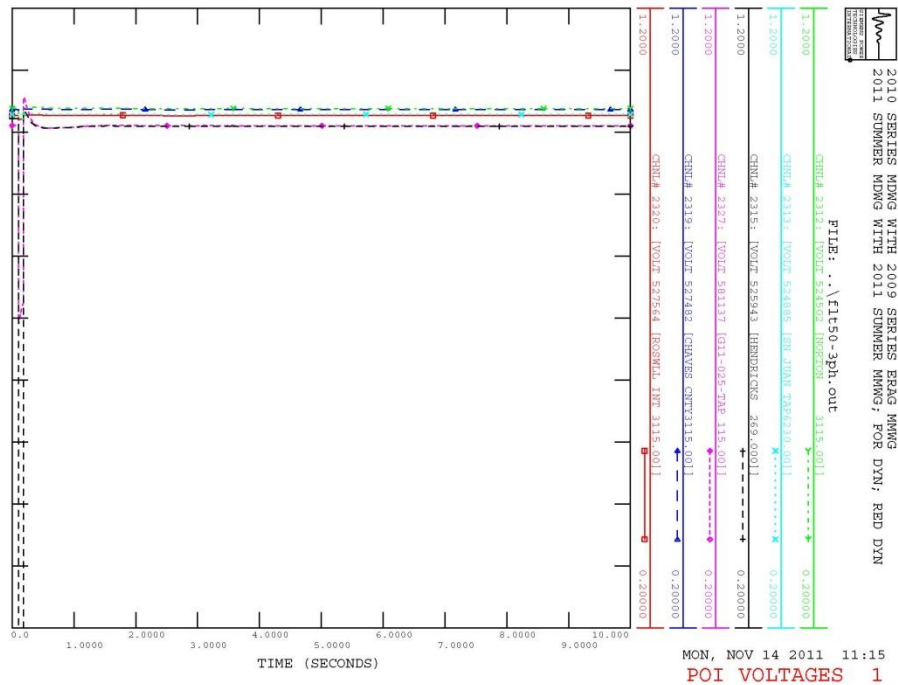
**Figure 4-5. GEN-2011-025 Plot for Fault 46 – 3-Phase Fault on the GEN-2011-025 Tap (581137) to Floyd County (525780) 115kV line, near GEN-2011-025 Tap**



**Figure 4-6. POI Voltages for Fault 46 – 3-Phase Fault on the GEN-2011-025 Tap (581137) to Floyd County (525780) 115kV line, near GEN-2011-025 Tap**



**Figure 4-7. ASGI-2011-003 Plot for Fault 50 – 3-Phase Fault on one of the Crosby County 69kV (525925) to 115kV (525926) transformers, near the 69kV bus**



**Figure 4-8. POI Voltages for Fault 50 – 3-Phase Fault on one of the Crosby County 69kV (525925) to 115kV (525926) transformers, near the 69kV bus**

## **4.2 Power Factor Requirements**

All stability faults were tested as power flow contingencies to determine the power factor requirements for the wind farm study projects to maintain scheduled voltage at their respective points of interconnection (POI). The voltage schedules are set equal to the voltages at the POIs before the projects are added, with a minimum of 1.0 per unit. Fictitious reactive power sources were added to the study projects to maintain scheduled voltage during all studied contingencies. The MW and Mvar injections from the study projects at the POIs were recorded and the resulting power factors were calculated for all contingencies for summer peak and winter peak cases. The most leading and most lagging power factors determine the minimum power factor range capability that the study projects must install before commercial operation.

If more than one study project shared a single POI, the projects were grouped together and a common power factor requirement was determined for those study projects. This ensures that none of the study projects is required to provide more or less than its fair share of the reactive power requirements at a single POI. *Prior-queued* projects at the same POI, if any, were not grouped with the study projects because their interconnection requirements were determined in previous studies. The voltage schedules of prior-queued and study projects at the same POI were coordinated.

Per FERC and SPP Tariff requirements, if the power factor needed to maintain scheduled voltage is less than 0.95 lagging, then the requirement is limited to 0.95 lagging. The lower limit for leading power factor requirement is also 0.95. If a project never operated leading under any contingency, then the leading requirement is set to 1.0. The same applies on the lagging side.

The final power factor requirements are shown in Table 4-2 below. These are only the minimum power factor ranges based on steady-state analysis.

The full details for each contingency in summer and winter peak cases are given in Appendix C.



**Table 4-2. Power Factor Requirements <sup>a</sup>**

Request	Size (MW)	Generator Model	Point of Interconnection	Final PF Requirement	
				Lagging <sup>b</sup>	Leading <sup>c</sup>
GEN-2010-020	20	Emerson Inverter	Roswell 115kV (527564)	0.95 <sup>d</sup>	0.95 <sup>d</sup>
GEN-2010-058	20.8	Emerson Inverter	Chaves County 115kV (527482)	0.95 <sup>d</sup>	0.95 <sup>d</sup>
GEN-2011-025	80	GE 1.6MW	Tap on Floyd County - Crosby County 115kV line (581137)	1.0	0.952
ASGI-2011-003	10	Sany 2.0MW	Hendricks 69kV (525943)	0.95 <sup>d</sup>	0.976

Notes:

- a. For each plant, the table shows the minimum required power factor capability at the point of interconnection that must be designed and installed with the plant. The power factor capability at the POI includes the net effect of the generators, transformers, line impedances, and any reactive compensation devices installed on the plant side of the meter. Installing more capability than the minimum requirement is acceptable.
- b. Lagging is when the generating plant is supplying reactive power to the transmission grid. In this situation, the alternating current sinusoid “lags” behind the alternating voltage sinusoid, meaning that the current peaks shortly after the voltage.
- c. Leading is when the generating plant is taking reactive power from the transmission grid. In this situation, the alternating current sinusoid “leads” the alternating voltage sinusoid, meaning that the current peaks shortly before the voltage.
- d. Electrical need is lower, but PF requirement limited to 0.95 by FERC order.

## 5. Conclusions

The DISIS-2011-001 Group 6 Definitive Impact Restudy evaluated the impacts of interconnecting the projects shown below.

**Table 5-1. Interconnection Requests Evaluated in this Study**

Request	Size	Generator Type	Point of Interconnection	Gen Buses
GEN-2010-020	20	Emerson Inverter	Roswell 115kV (527564)	580101
GEN-2010-058	20.8	Emerson Inverter	Chaves County 115kV (527482)	581158
GEN-2011-025	80	GE 1.6MW	Tap on Floyd County – Crosby County 115kV line (581137)	581140
ASGI-2011-003	10	Sany 2.0MW	Hendricks 69kV (525943)	582600

No stability problems were found for any of the simulated faults. All study projects and prior-queued projects remained stable and on-line following all faults.

Final power factor and capacitor requirements for the Group 6 projects are listed in Table 4-2.

With the assumptions and upgrades described in this report, DISIS-2011-001 Group 6 should be able to connect without causing any stability problems on the SPP transmission grid.

Any change in system or wind farm models or assumptions could change these results.

## **Appendix A – Summer Peak Plots**

See attachments.

## **Appendix B – Winter Peak Plots**

See attachments.

## **Appendix C – Power Factor Details**

See attachment.

## **Appendix D – Project Model Data**

See attachment.

## **Appendix E – SPP Transmission One-line Diagrams**

See attachment.

**O: Stability Study for Group 7**

*Pterra Consulting*

Technical Report R141-11

# Impact Re-Study for Generation Interconnection Request GEN-2011-001 Group 7



Submitted to

**Southwest Power Pool**

November, 2011

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## Executive Summary

This report presents the results of impact re-study comprising of power factor and stability analyses of the proposed interconnection projects under DISIS-2011-001 Group 7 (the "Project") as described in the following table:

Request	Size (MW)	Wind Turbine Model	Point of Interconnection
GEN-2011-007	250.0	REpower MM92 2.05MW	Matthewson 345kV (560368)
GEN-2011-010	100.8	GE 1.6MW	Tap on the Cimarron – Gracemont 345kV (210431)

The analysis was conducted through the Southwest Power Pool ("SPP") Tariff. Power factor analysis and transient stability simulations were conducted with both projects in service at their full output.

Two base cases, 2011 summer peak and 2011 winter peak conditions, each comprising of a power flow and corresponding dynamics database were provided by SPP. The power flow model and dynamics database of the two cases were updated to reflect changes based on information from SPP.

### Power Factor Test

Gen-2011-007

The power factor requirements for GEN-2011-007 are 95.3% leading (supplying vars) and 91.6% lagging (absorbing vars).

GEN-2011-010

The power factor requirements for GEN-2011-010 are 97.1% leading (supplying vars) and 99.2% lagging (absorbing vars).

### Stability Simulations

Forty-nine (49) faults were considered for the transient stability simulations which include three-phase faults and single-line-to-ground faults at the locations defined by SPP. The results of the simulation showed neither angular nor voltage instability problems in the SPP system for the forty-nine faults. The study finds that the interconnection of the proposed projects does not impact the stability performance of the SPP system for the faults tested on the supplied base cases.

## Section 1. Introduction

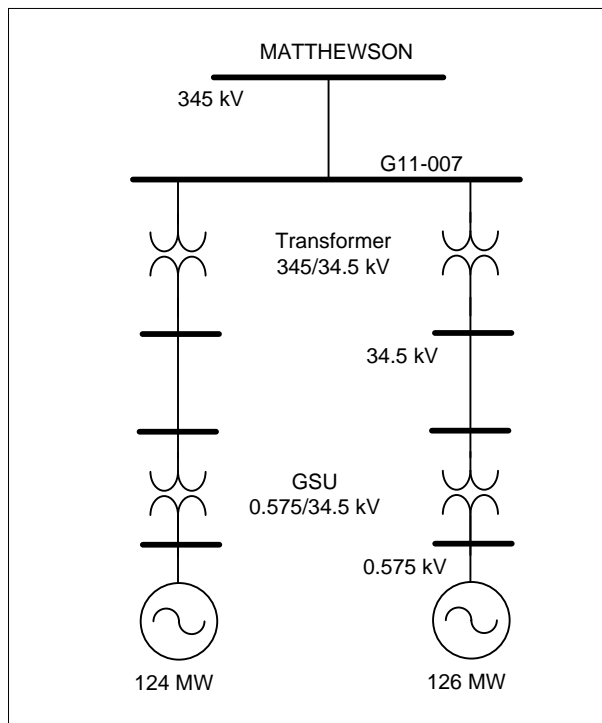
### 1.1. Project Overview

This report presents the results of impact re-study comprising of power factor and stability analyses of the proposed interconnection projects under DISIS-2011-001 Group 7 (the "Project") as described in Table 1-1:

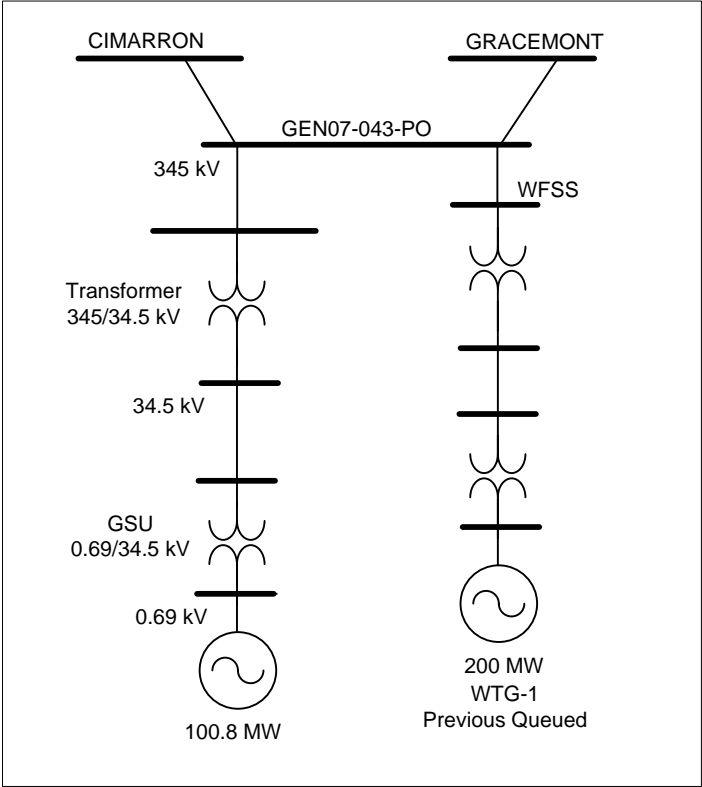
**Table 1-1 Projects Included Under DISIS-2011-001 (Group 7)**

Request	Size (MW)	Wind Turbine Model	Point of Interconnection
GEN-2011-007	250.0	REpower MM92 2.05MW	Matthewson 345kV (560368)
GEN-2011-010	100.8	GE 1.6MW	Tap on the Cimarron – Gracemont 345kV (515800)

Figures 1-1 and 1-2 show the interconnection diagrams of the Project to SPP's system as modeled in the power flow cases.



**Figure 1-1 Power Flow Model for Gen-2011-007**



**Figure 1-2 Power Flow Model for Gen-2011-010**

Table 1-2 shows the list of prior queued projects modeled in the base case.

**Table 1-2 List of Prior Queued Projects**

<b>Request</b>	<b>Size (MW)</b>	<b>Wind Turbine Model</b>	<b>Point of Interconnection</b>
Blue Canyon I	74	CIMTR	Washita 138kV (521089)
Blue Canyon II (GEN-2003-004)	151	Vestas V80	Washita 138kV (521089)
Weatherford	147	G.E. 1.5MW	Weatherford 138kV (511506)
GEN-2003-005	100	G.E. 1.5MW	Tap on the Anadarko – Paradise 138kV line (521129)
GEN-2006-002	101	G.E. 1.5 & 1.6MW	Sweetwater 230kV (511541)
GEN-2006-035	224	Gamesa	Sweetwater 230kV (511541)
GEN-2006-043	98.9	Siemens 2.3MW	Sweetwater 230kV (511541)
GEN-2007-032	150	Acciona 1.5MW	Tap on the Clinton Jct. – Clinton 138kV line (560939)
GEN-2007-043	200	G.E. 1.6MW	Tap on the Cimarron – Gracemont 345kV line (210431)
GEN-2007-052	150	Gas Turbine	Anadarko 138kV (520814)
GEN-2008-023	150	G.E. 1.5MW	Hobart Junction 138kV (511463)
GEN-2009-016	100.8	G.E. 1.6MW	Falcon Road 138KV (511511)
GEN-2008-037	100.8	Vestas V90 1.8MW	Tap on the Washita – Blue Canyon 138kV line (Bus 573570)
GEN-2009-030	100.8	GE 1.6MW	Weatherford 138kV (521092)
GEN-2009-060	85.5	GE 1.5MW	Gotebo 69kV (520925)
GEN-2010-012	65	Clipper 2.5MW	Brantley 138kV (520832)
GEN-2010-040	300.3	Suzlon 2.1MW	Cimarron 345kV (514901)

## 1.2. Objectives

The objectives of the study are to conduct power factor analysis and to determine the impact on system stability of interconnecting the proposed wind farms to SPP's transmission system.

## Section 2. Power Factor Analysis

### 2.1. Methodology

Power factor analysis was conducted for the Project using a methodology which is summarized as follows:

1. Turn off the Project wind farm as modeled (as well as prior queued projects at the same point of interconnection). Replace the wind farms by a generator at the high side bus with the MW of the wind farms and no VAR capability.
2. Model a VAR generator at the wind farm’s substation high voltage bus. The VAR generator is set to hold a voltage schedule at the POI consistent with the voltage schedule in the provided power flow cases for summer and winter or 1.0 p.u. voltage, whichever is higher.
3. Conduct steady state contingency analysis to determine the power factor necessary at the POI for each contingency.
4. If the required power factor at the POI is beyond the capability of the studied wind turbines, capacitor banks may be considered for the stability analysis. The preference is to locate the capacitance banks on the 34.5 kV customer side. Factors to sizing capacitor banks include:
  - 4.1. The ability of the wind farm to meet FERC Order 661A (low voltage ride through) with and without capacitor banks.
  - 4.2. The ability of the wind farm to meet FERC Order 661A (wind farm recovery to pre-fault voltage).
  - 4.3. If wind farms trips on high voltage, power factor lower than unity may be required.

### 2.2. Analysis

The Project and prior-queued project wind farms were turned off and replaced by a generator at the high voltage bus equivalent to the combined capacities of the plants and with no VAR capability. A VAR generator was also modeled at the same bus and was set to hold a voltage at the POI consistent with the voltage schedule in the updated power flow cases or 1.0 p.u., whichever is higher. Table 2-1 shows the pre-contingency voltages at the POI’s in the provided power flow models.

**Table 2-1 Pre-contingency Voltages at POI**

Request	Point of Interconnection	Size (MW)	Base Case Voltage (p.u.)	
			Summer Peak	Winter Peak
GEN-2011-007	Matthewson 345kV (560368)	250.0	1.001	0.997
GEN-2011-010	Tap on the Cimarron – Gracemont 345kV (579293)	100.8	1.002	0.995

## Gen-2011-007

The var generator either supplies or absorbs reactive power for the different contingencies as summarized in Table 2-2. The highest values obtained are as follows:

1. For the summer case, the var generator supplies 46.2 MVAR for the outage of Matthewson-Tatonga 345 kV line and absorbs 109.5 MVAR for the loss of Matthewson-Northwest 345 kV line.
2. For the winter case, the var generator supplies 95.6 MVAR for the outage of Matthewson-Tatonga 345 kV line and absorbs 70.7 MVAR for the loss of Matthewson-Northwest 345 kV line.
3. The corresponding power factor requirements for GEN-2011-007 are 95.3% leading (supplying vars) and 91.6% lagging (absorbing vars).

**Table 2-2 VAR Generator Output in Summer and Winter Peak Cases for GEN-2011-007**

CASE	CONTINGENCY	POWER FACTOR		MW @ POI	VARGEN MVAR
SP	BASE CASE	0.979	Lag	250.1	-51.6
	MATTHEWSON - TATONGA 345 KV LINE	0.983	Lead	250.1	46.2
	GEN-2007-043 TAP - CIMARRON 345 KV LINE	1.000	Lag	250.1	-6.4
	GEN-2007-043 TAP - GRACEMONT 345 KV LINE	0.992	Lag	250.1	-31.7
	GRACEMONT - LAWTON EASTSIDE 345 KV LINE	0.991	Lag	250.1	-33.1
	GRACEMONT 345 KV - 138 KV TRANSFORMER	0.980	Lag	250.1	-51.4
	CIMARRON - NORTHWEST 345 KV LINE	0.983	Lag	250.1	-46.9
	CIMARRON - DRAPER 345 KV LINE	0.996	Lag	250.1	-22.7
	CIMARRON 345 KV - 138 KV TRANSFORMER	0.961	Lag	250.1	-71.9
	WOODRING - GEN-2008-013 TAP 345 KV LINE	1.000	Lag	250.1	-6.9
	WOODRING - SOONER 345 KV LINE	0.987	Lag	250.1	-41.2
	WOODRING 345 KV - 138 KV TRANSFORMER	0.965	Lag	250.1	-68.5
	WASHITA - SOUTHWEST STATION 138 KV LINE	0.988	Lag	250.1	-38.3
	GRACEMONT - WASHITA 138 KV LINE CKT 1	0.980	Lag	250.1	-50.8
	WASHITA - ONEY 138 KV LINE	0.983	Lag	250.1	-47.1
	WEATHERFORD - WASHITA 138 KV LINE	0.979	Lag	250.1	-51.6
	ELK CITY - CLINTON SHERMAN AFB TAP 138 KV LINE	0.986	Lag	250.1	-42.2
	ELK CITY 138 KV - 230 KV TRANSFORMER	0.980	Lag	250.1	-50.9
	ELK CITY 138 KV - 69 KV TRANSFORMER	0.980	Lag	250.1	-50.3
	ANADARKO - SOUTHWEST 138 KV LINE	0.981	Lag	250.1	-49.5
	ANADARKO - GRACEMONT 138 KV LINE	0.980	Lag	250.1	-50.4
	ANADARKO - CORNVILLE TAP 138 KV LINE	0.983	Lag	250.1	-47.0
	ANADARKO - GEORGIA 138 KV LINE	0.983	Lag	250.1	-47.0
ANADARKO - POCASSET 138 KV LINE	0.992	Lag	250.1	-31.2	
ALTUS - SNYDER 138 KV LINE	0.980	Lag	250.1	-50.7	
SWEET WATER - WHEELER 230 KV LINE	0.979	Lag	250.1	-51.6	
HOBART JCT - OMALTUS 138 KV LINE	0.981	Lag	250.1	-50.1	
MATTHEWSON - NORTHWEST 345 KV LINE	0.916	Lag	250.1	-109.5	
WP	BASE CASE	1.000	Lead	300.8	2.5
	MATTHEWSON - TATONGA 345 KV LINE	0.953	Lead	300.8	95.6
	GEN-2007-043 TAP - CIMARRON 345 KV LINE	0.987	Lead	300.8	48.6
	GEN-2007-043 TAP - GRACEMONT 345 KV LINE	0.999	Lead	300.8	14.1

CASE	CONTINGENCY	POWER FACTOR		MW @ POI	VARGEN MVAR
	GRACEMONT - LAWTON EASTSIDE 345 KV LINE	0.999	Lead	300.8	12.5
	GRACEMONT 345 KV - 138 KV TRANSFORMER	1.000	Lead	300.8	7.6
	CIMARRON - NORTHWEST 345 KV LINE	0.999	Lead	300.8	12.1
	CIMARRON - DRAPER 345 KV LINE	0.980	Lead	300.8	61.2
	CIMARRON 345 KV - 138 KV TRANSFORMER	0.996	Lag	300.8	-26.2
	WOODRING - GEN-2008-013 TAP 345 KV LINE	0.990	Lead	300.8	43.2
	WOODRING - SOONER 345 KV LINE	1.000	Lead	300.8	7.8
	WOODRING 345 KV - 138 KV TRANSFORMER	1.000	Lag	300.8	-2.5
	WASHITA - SOUTHWEST STATION 138 KV LINE	0.999	Lead	300.8	10.4
	GRACEMONT - WASHITA 138 KV LINE CKT 1	1.000	Lead	300.8	3.6
	WASHITA - ONEY 138 KV LINE	0.999	Lead	300.8	10.0
	WEATHERFORD - WASHITA 138 KV LINE	1.000	Lead	300.8	2.5
	ELK CITY - CLINTON SHERMAN AFB TAP 138 KV LINE	0.999	Lead	300.8	13.9
	ELK CITY 138 KV - 230 KV TRANSFORMER	1.000	Lag	300.8	-3.6
	ELK CITY 138 KV - 69 KV TRANSFORMER	1.000	Lead	300.8	5.5
	ANADARKO - SOUTHWEST 138 KV LINE	1.000	Lead	300.8	3.8
	ANADARKO - GRACEMONT 138 KV LINE	0.999	Lead	300.8	9.6
	ANADARKO - CORNVILLE TAP 138 KV LINE	0.999	Lead	300.8	9.8
	ANADARKO - GEORGIA 138 KV LINE	0.999	Lead	300.8	11.8
	ANADARKO - POCASSET 138 KV LINE	0.996	Lead	300.8	28.4
ALTUS - SNYDER 138 KV LINE	1.000	Lead	300.8	5.1	
SWEET WATER - WHEELER 230 KV LINE	1.000	Lead	300.8	2.5	
HOBART JCT - OMALTUS 138 KV LINE	1.000	Lead	300.8	7.9	
MATTHEWSON - NORTHWEST 345 KV LINE	0.973	Lag	300.8	-70.7	

### Gen-2011-010

The var generator either supplies or absorbs reactive power for the different contingencies as summarized in Table 2-3. The highest values obtained are as follows:

1. For the summer case, the var generator supplies 43.3 MVAR for the outage of GEN-2007-043 Tap-Gracemont 345 kV line and absorbs 17.5 MVAR for the loss of Cimarron 345/138 kV transformer.
2. For the winter case, the var generator supplies 74.1 MVAR for the outage of Matthewson-Tatonga 345 kV Line 1 and absorbs 39.1 MVAR for the loss of Gen-2007-043 Tap-Gracemont 345 kV line.
3. The corresponding power factor requirements for GEN-2011-010 are 97.1% leading (supplying vars) and 99.2% lagging (absorbing vars).

**Table 2-3 VAR Generator Output in Summer and Winter Peak Cases for GEN-2011-010**

CASE	CONTINGENCY	POWER FACTOR		MW @ POI	VARGEN MVAR
SP	BASE CASE	1.000	Lag	250.1	-6.6
	MATTHEWSON - TATONGA 345 KV LINE	0.992	Lead	250.1	32.4
	GEN-2007-043 TAP - CIMARRON 345 KV LINE	0.999	Lag	250.1	-11.1
	GEN-2007-043 TAP - GRACEMONT 345 KV LINE	0.985	Lead	250.1	43.3
	GRACEMONT - LAWTON EASTSIDE 345 KV LINE	0.990	Lead	250.1	36.0
	GRACEMONT 345 KV - 138 KV TRANSFORMER	0.999	Lag	250.1	-10.7
	CIMARRON - NORTHWEST 345 KV LINE	1.000	Lead	250.1	7.6

CASE	CONTINGENCY	POWER FACTOR		MW @ POI	VARGEN MVAR
	CIMARRON - DRAPER 345 KV LINE	1.000	Lead	250.1	4.9
	CIMARRON 345 KV - 138 KV TRANSFORMER	0.998	Lag	250.1	-17.5
	WOODRING - GEN-2008-013 TAP 345 KV LINE	1.000	Lead	250.1	1.5
	WOODRING - SOONER 345 KV LINE	1.000	Lag	250.1	-4.3
	WOODRING 345 KV - 138 KV TRANSFORMER	0.999	Lag	250.1	-8.6
	WASHITA - SOUTHWEST STATION 138 KV LINE	0.992	Lead	250.1	32.2
	GRACEMONT - WASHITA 138 KV LINE CKT 1	1.000	Lag	250.1	-4.8
	WASHITA - ONEY 138 KV LINE	0.999	Lag	250.1	-11.0
	WEATHERFORD - WASHITA 138 KV LINE	1.000	Lag	250.1	-6.6
	ELK CITY - CLINTON SHERMAN AFB TAP 138 KV LINE	1.000	Lag	250.1	-7.6
	ELK CITY 138 KV - 230 KV TRANSFORMER	0.999	Lag	250.1	-11.9
	ELK CITY 138 KV - 69 KV TRANSFORMER	1.000	Lag	250.1	-7.7
	ANADARKO - SOUTHWEST 138 KV LINE	1.000	Lag	250.1	-2.4
	ANADARKO - GRACEMONT 138 KV LINE	1.000	Lag	250.1	-1.3
	ANADARKO - CORNVILLE TAP 138 KV LINE	1.000	Lag	250.1	-1.5
	ANADARKO - GEORGIA 138 KV LINE	1.000	Lag	250.1	-0.1
	ANADARKO - POCASSET 138 KV LINE	0.999	Lead	250.1	11.4
	ALTUS - SNYDER 138 KV LINE	1.000	Lag	250.1	-6.9
	SWEET WATER - WHEELER 230 KV LINE	1.000	Lag	250.1	-6.6
	HOBART JCT - OMALTUS 138 KV LINE	1.000	Lag	250.1	-6.1
MATTHEWSON - NORTHWEST 345 KV LINE	1.000	Lag	250.1	-2.6	
WP	BASE CASE	1.000	Lag	300.8	-0.5
	MATTHEWSON - TATONGA 345 KV LINE	0.971	Lead	300.8	74.1
	GEN-2007-043 TAP - CIMARRON 345 KV LINE	0.992	Lag	300.8	-39.1
	GEN-2007-043 TAP - GRACEMONT 345 KV LINE	1.000	Lead	300.8	2.9
	GRACEMONT - LAWTON EASTSIDE 345 KV LINE	0.999	Lead	300.8	12.7
	GRACEMONT 345 KV - 138 KV TRANSFORMER	1.000	Lag	300.8	-5.4
	CIMARRON - NORTHWEST 345 KV LINE	0.999	Lead	300.8	10.8
	CIMARRON - DRAPER 345 KV LINE	0.996	Lead	300.8	28.2
	CIMARRON 345 KV - 138 KV TRANSFORMER	0.998	Lag	300.8	-18.3
	WOODRING - GEN-2008-013 TAP 345 KV LINE	0.999	Lead	300.8	10.4
	WOODRING - SOONER 345 KV LINE	1.000	Lead	300.8	1.8
	WOODRING 345 KV - 138 KV TRANSFORMER	1.000	Lag	300.8	-1.2
	WASHITA - SOUTHWEST STATION 138 KV LINE	0.998	Lead	300.8	20.6
	GRACEMONT - WASHITA 138 KV LINE CKT 1	1.000	Lag	300.8	-0.5
	WASHITA - ONEY 138 KV LINE	1.000	Lag	300.8	-6.5
	WEATHERFORD - WASHITA 138 KV LINE	1.000	Lag	300.8	-0.5
	ELK CITY - CLINTON SHERMAN AFB TAP 138 KV LINE	1.000	Lag	300.8	-4.5
	ELK CITY 138 KV - 230 KV TRANSFORMER	0.999	Lag	300.8	-15.8
	ELK CITY 138 KV - 69 KV TRANSFORMER	1.000	Lead	300.8	0.1
	ANADARKO - SOUTHWEST 138 KV LINE	1.000	Lead	300.8	0.5
	ANADARKO - GRACEMONT 138 KV LINE	0.999	Lead	300.8	14.0
	ANADARKO - CORNVILLE TAP 138 KV LINE	1.000	Lead	300.8	7.9
	ANADARKO - GEORGIA 138 KV LINE	0.999	Lead	300.8	11.0
	ANADARKO - POCASSET 138 KV LINE	0.997	Lead	300.8	24.3
	ALTUS - SNYDER 138 KV LINE	1.000	Lead	300.8	1.2
SWEET WATER - WHEELER 230 KV LINE	1.000	Lag	300.8	-0.5	
HOBART JCT - OMALTUS 138 KV LINE	1.000	Lead	300.8	4.6	
MATTHEWSON - NORTHWEST 345 KV LINE	0.999	Lead	300.8	10.7	



### **2.3. Conclusions**

Gen-2011-007

The power factor requirements for GEN-2011-007 are 95.3% leading (supplying vars) and 91.6% lagging (absorbing vars).

GEN-2011-010

The power factor requirements for GEN-2011-010 are 97.1% leading (supplying vars) and 99.2% lagging (absorbing vars).

## Section 3. Stability Analysis

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### 3.1. Assumptions

The following assumptions were adopted for the dynamic simulations:

1. Constant maximum and uniform wind speed for the entire period of study.
2. Wind turbine control models with their default values.
3. Under/over voltage/frequency protection use manufacturer settings.

### 3.2. Faults Simulated

Forty-nine (49) faults were considered for the transient stability simulations which included three phase and single-phase line faults at the locations defined by SPP. Single-phase line faults were simulated by applying a fault impedance to the positive sequence network at the fault location to represent the effect of the negative and zero sequence networks on the positive sequence network. The fault impedance was computed to give a positive sequence voltage at the specified fault location of approximately 60% of pre-fault voltage. This method is in agreement with SPP current practice. Prior queued projects shown in Table 1-2 and units in areas 520, 524, 525, 526, 531, 534, and 536 were monitored in the simulations.

Table 3-1 shows the list of simulated contingencies. It also shows the fault clearing time and the time delay before re-closing for all the study contingencies.

**Table 3-1 List of Simulated Faults**

Cont. No.	Cont. Name	Description
1	FLT01-3PH	3 phase fault on the Matthewson (560368) to Tatonga (515407) 345kV line, near Matthewson. a. Apply fault at the Matthewson 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
2	FLT02-1PH	Single phase fault and sequence like previous
3	FLT05-3PH	3 phase fault on the GEN-2007-043 Tap (210431) to Cimarron (514901) 345kV line, near GEN-2007-043 Tap. a. Apply fault at the GEN-2007-043 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
4	FLT06-1PH	Single phase fault and sequence like previous
5	FLT07-3PH	3 phase fault on the GEN-2007-043 Tap (210431) to Gracemont (515800) 345kV line, near GEN-2007-043 Tap. a. Apply fault at the GEN-2007-043 Tap 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
6	FLT08-1PH	Single phase fault and sequence like previous
7	FLT09-3PH	3 phase fault on the Gracemont (515800) to Lawton Eastside (511468) 345kV line, near Gracemont. a. Apply fault at the Gracemont 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
8	FLT10-1PH	Single phase fault and sequence like previous
9	FLT11-3PH	3 phase fault on the Gracemont 345kV (515800) to 138kV (515802) transformer, near the 345kV bus. a. Apply fault at the Gracemont 345kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
10	FLT12-3PH	3 phase fault on the Cimarron (514901) to Northwest (514880) 345kV line, near Cimarron. a. Apply fault at the Cimarron 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
11	FLT13-1PH	Single phase fault and sequence like previous
12	FLT14-3PH	3 phase fault on the Cimarron (514901) to Draper (514934) 345kV line, near Cimarron. a. Apply fault at the Cimarron 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
13	FLT15-1PH	Single phase fault and sequence like previous
14	FLT16-3PH	3 phase fault on one of the Cimarron 345kV (514901) to 138kV (514898) transformer, near the 345kV bus. a. Apply fault at the Cimarron 345kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
15	FLT17-3PH	3 phase fault on the Woodring (514715) to GEN-2008-013 Tap (210130) 345kV line, near Woodring. a. Apply fault at the Woodring 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
16	FLT18-1PH	Single phase fault and sequence like previous
17	FLT19-3PH	3 phase fault on the Woodring (514715) to Sooner (514803) 345kV line, near Woodring. a. Apply fault at the Woodring 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
18	FLT20-1PH	Single phase fault and sequence like previous
19	FLT21-3PH	3 phase fault on the Woodring 345kV (514715) to 138kV (514714) transformer, near the 345kV bus. a. Apply fault at the Woodring 345kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
20	FLT22-3PH	3 phase fault on the Washita (521089) to Southwest Station (511477) 138kV line, near Washita. a. Apply fault at the Washita 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
21	FLT23-1PH	Single phase fault and sequence like previous
22	FLT24-3PH	3 phase fault on one of the Gracemont (515802) to Washita (521089) 138kV line ckt 1, near Gracemont. a. Apply fault at the Gracemont 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
23	FLT25-1PH	Single phase fault and sequence like previous
24	FLT26-3PH	3 phase fault on the Washita (521089) to Oney (521017) 138kV line, near Washita. a. Apply fault at the Washita 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
25	FLT27-1PH	Single phase fault and sequence like previous
26	FLT28-3PH	3 phase fault on the Weatherford (521092) to Washita (521089) 138kV line, near Weatherford. a. Apply fault at the Weatherford 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
27	FLT29-1PH	Single phase fault and sequence like previous
28	FLT30-3PH	3 phase fault on the Elk City (511458) to Clinton Sherman AFB Tap (511446) 138kV line, near Elk City. a. Apply fault at the Elk City 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
29	FLT31-1PH	Single phase fault and sequence like previous
30	FLT32-3PH	3 phase fault on the Elk City 138kV (511458) to 230kV (511490) transformer, near the 138kV bus. a. Apply fault at the Elk City 138kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.

Cont. No.	Cont. Name	Description
31	FLT33-3PH	3 phase fault on the Elk City 138kV (511458) to 69kV (511459) transformer, near the 138kV bus. a. Apply fault at the Elk City 138kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
32	FLT34-3PH	3 phase fault on the Anadarko (520814) to Southwest (511477) 138kV line, near Anadarko. a. Apply fault at the Anadarko 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
33	FLT35-1PH	Single phase fault and sequence like previous
34	FLT36-3PH	3 phase fault on the Anadarko (520814) to Gracemont (515802) 138kV line, near Gracemont. a. Apply fault at the Gracemont 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
35	FLT37-1PH	Single phase fault and sequence like previous
36	FLT38-3PH	3 phase fault on the Anadarko (520814) to Cornville Tap (520867) 138kV line, near Anadarko. a. Apply fault at the Anadarko 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
37	FLT39-1PH	Single phase fault and sequence like previous
38	FLT40-3PH	3 phase fault on the Anadarko (520814) to Georgia (520923) 138kV line, near Anadarko. a. Apply fault at the Anadarko 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
39	FLT41-1PH	Single phase fault and sequence like previous
40	FLT42-3PH	3 phase fault on the Anadarko (520814) to Pocasset (521031) 138kV line, near Anadarko. a. Apply fault at the Anadarko 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
41	FLT43-1PH	Single phase fault and sequence like previous
42	FLT44-3PH	3 phase fault on the Altus (511440) to Snyder (511435) 138kV line, near Altus. a. Apply fault at Altus 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
43	FLT45-1PH	Single phase fault and sequence like previous
44	FLT46-3PH	3 phase fault on the Sweet Water (511541) to Wheeler (523777) 230kV line, near Sweet Water. a. Apply fault at Sweet Water 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
45	FLT47-1PH	Single phase fault and sequence like previous

Cont. No.	Cont. Name	Description
46	FLT48-3PH	3 phase fault on the Hobart Jct (511463) to Omaltus (529302) 138kV line, near Hobart Jct. a. Apply fault at Hobart Jct 138kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
47	FLT49-1PH	Single phase fault and sequence like previous
48	FLT53-3PH	3 phase fault on the Matthewson (560368) to Northwest (514880) 345kV line, near Matthewson. a. Apply fault at the Matthewson 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
49	FLT53-1PH	Single phase fault and sequence like previous

The simulations were performed with a 0.1-second steady-state run followed by the appropriate disturbance as described in Table 3-1. Simulations were run for a minimum 10-second duration to confirm proper machine damping.

### 3.3. Simulation Results

The stability simulations with the forty-nine specified test faults did not find any angular or voltage instability problems in the SPP system for the two projects. The study finds that the interconnection of the proposed projects does not impact the stability performance of the SPP system for the faults tested on the supplied base cases.

## Section 4. Conclusions

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The findings of the impact re-study for the proposed interconnection projects under DISIS-2011-001 (Group 7), namely Gen-2011-007 and Gen-2011-010, considered at 100% of their proposed installed capacities are as follows:

1. Gen-2011-007

The power factor requirements for GEN-2011-007 are 95.3% leading (supplying vars) and 91.6% lagging (absorbing vars).

2. GEN-2011-010

The power factor requirements for GEN-2011-010 are 97.1% leading (supplying vars) and 99.2% lagging (absorbing vars).

3. The stability simulations with the forty-nine specified test faults did not find any angular or voltage instability problems in the SPP system for the two projects. The study finds that the interconnection of the proposed projects does not impact the stability performance of the SPP system for the faults tested on the supplied base cases.

**P: Stability Study for Group 8**

**- No requests were located in the cluster group**



**Q: Stability Study for Group 9/10**

**- No requests were located in the cluster group**

## **R: Stability Study for Group 11**



## POWER SYSTEMS CONSULTING

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# System Impact Re-Study for DISIS-2011-001-1 Group 11

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## DRAFT REPORT

**REPORT NO.:** 2011-E-7601-R0  
**Issued On:** November 14, 2011

**Prepared for:**  
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<b>Southwest Power Pool, Inc.</b>	<b>No. 2011-E-7601-R0</b>	
System Impact Re-Study for DISIS-2011-001-1 Group 11	Date: 11/14/2011	# Pages 21

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**Executive Summary**

Southwest Power Pool, Inc. (SPP) commissioned ABB Inc. to perform a Definitive Interconnection System Impact Study for Group 11 generation, which included a wind-based generation of 201 MW (Queue # GEN-2010-057) on the SPP transmission. The proposed wind farm is located in Rice County, Kansas and the POI is at Rice County 230 KV substation. A study was performed earlier for this interconnection, which has been documented in a report. The subject study is a re-study due to following changes to the transmission system:

1. Removal of Rice – Circle 115 kV
2. Removal of Rice – Mullergren 230 kV
3. Addition of Rice – Circle 230 kV

This study evaluated the impact of the Group 11 project on the SPP Transmission System. The scope of this study was limited to the power factor evaluation and transient stability analysis.

A summary of the study findings is given below:

**Power factor analysis**

SPP requires that the Interconnection Customer's wind farm has the ability to maintain at least +/- 0.95 power factor at the POI for all system condition (system intact and contingencies), with a POI voltage consistent with the pre-project conditions if the study shows that reactive power is necessary. Based on the results, the wind must maintain the standard =/- 0.95 power factor at the POI.

**Stability Analysis**

A stability analysis was performed to determine the impact, if any, of the proposed project on the stability of SPP system. The system was found to be stable for all the tested 3-phase faults and single-line-to-ground (SLG) faults (with line re-closing, where applicable).

For FLT25\_3PH, FLT27\_3PH, FLT29\_3PH in both summer and winter peak as well as FLT13\_3PH for summer peak conditions, the results indicated tripping of the prior queued project, GEN-2006-032 on over-voltage after fault clearing. The above faults, when re-run with capacitor bank at GEN-2006-032 bus turned off, no such tripping was

observed. Hence the tripping of the prior queued project, GEN-2006-032 is not attributable to GEN-2010-057 interconnection.

**FERC Order 661A Compliance**

Selected faults were simulated at the Point of Interconnection (POI) of the proposed DISIS-2011-001-1 Group 11 wind farm to determine the compliance with FERC 661 – A post-transition period LVRT standard. The results indicated that the proposed project met the FERC LVRT requirement for wind farm interconnection.

Based on the results of the analysis, it can be concluded that the proposed GEN-2010-057 wind farm does not adversely impact the transmission performance of the SPP system.

*The results of this analysis are based on available data and assumptions made at the time of conducting this study. If any of the data and/or assumptions made in developing the study model change, the results provided in this report may not apply.*

Rev No.	Revision Description	Date	Authored by	Reviewed by	Approved by
0	Draft Report	11/14/2011	Bavisetti, K	Subramanian, S	Wong, W
DISTRIBUTION: Juliano Freitas– Southwest Power Pool, Inc.					

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# 1 INTRODUCTION

Southwest Power Pool, Inc. (SPP) commissioned ABB Inc. to perform a System Impact Re-Study for DISIS Group 11 generation, which included a wind-based generation of 201 MW (Queue # GEN-2010-057) on the SPP transmission. The proposed wind farm is located in Rice County, Kansas and the POI is at the Rice County 230 kV substation. A study was performed earlier for this interconnection, which has been documented in a report. The subject study is a re-study due to following changes to the transmission system:

4. Removal of Rice – Circle 115 kV
5. Removal of Rice – Mullergren 230 kV
6. Addition of Rice – Circle 230 kV

Figure 1-1 shows the approximate POI of the proposed generation project on a Geographical Transmission Map.

This study evaluated the impact of the Gen-2010-057 project on the SPP Transmission System. The scope of this study was limited to the power factor evaluation and transient stability analysis.

The main objectives of this study were

- 1) To determine the power factor requirements for the proposed wind farm
- 2) To determine the impact of the proposed Project (GEN-2010-057, 201 MW) on the stability of SPP transmission system and nearby generating stations.
- 3) To validate the compliance with FERC LVRT requirement for the wind farm.

To achieve these objectives the following analyses were performed on the 2011 Summer Peak and Winter Peak system conditions with GEN-2010-057 project in-service

- Power factor analysis for selected contingencies.
- Transient stability analysis for various local and regional contingencies.
- LVRT performance under selected contingencies near the POI.

The study was performed on Summer Peak and Winter Peak cases, provided by SPP. This report documents the methods, analysis and results of the system impact study.

**Table 1-1: GEN-2010-057 Project**

<b>Project</b>	<b>Size (MW)</b>	<b>Wind Turbine Type</b>	<b>Point of Interconnection</b>	<b>Location</b>
GEN-2010-057	201 MW	GE 1.5MW	Rice County 230kV (Bus #560012)	Rice County, Kansas

## 1.1 REPORT ORGANIZATION

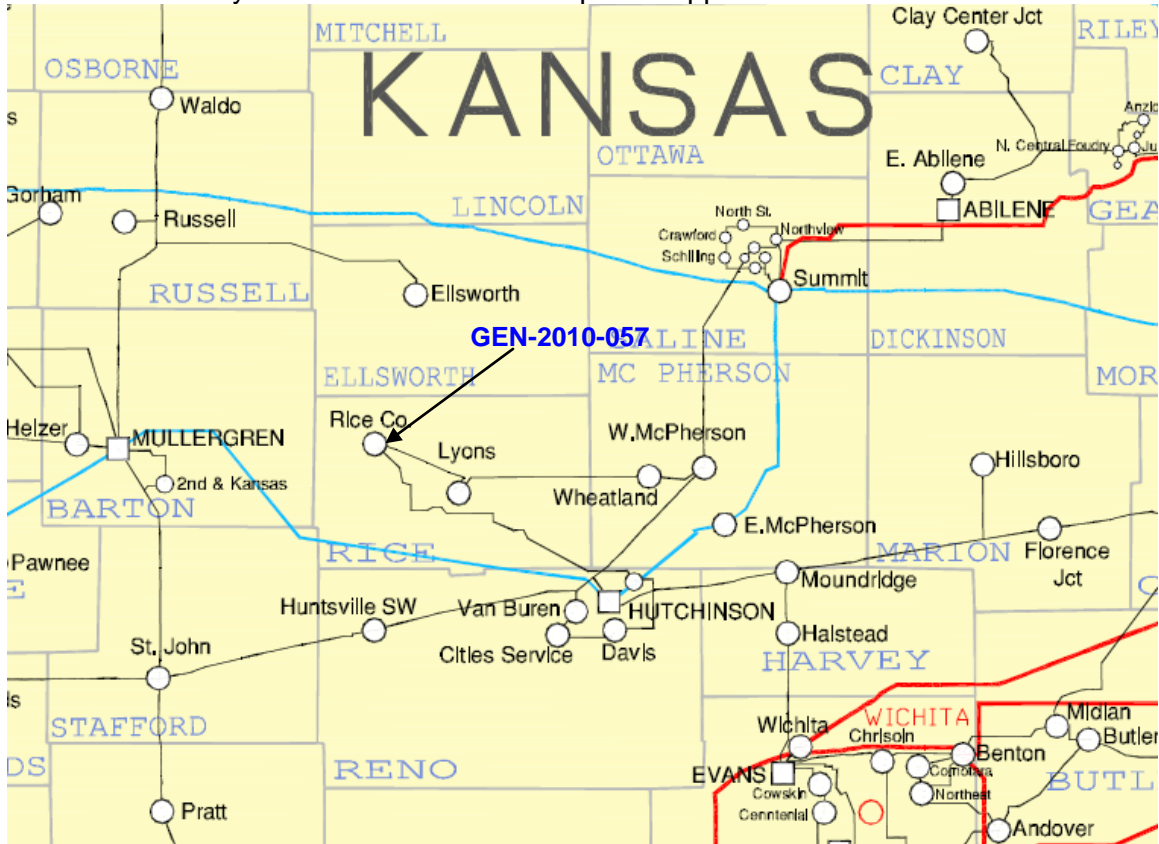
This report is organized as follows:

- Section 1: 2: Description of project
- Section 2: Study methodology
- Section 3: Model Development
- Section 4: Power Factor Analysis Results



Section 5: Stability Analysis Results  
Section 6: Conclusions

The detailed study results are included in separate appendices.



**Figure 1-1 Geographical Transmission Map with GEN-2010-057 approximate Project Location**

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## 1.2 DESCRIPTION OF GEN-2010-057 PROJECT

The details of load flow and dynamic data for the GEN-2010-057 wind farm project is included in Appendix A.

- Wind farm size: 201 MW
  - Interconnection:
    - Voltage: 230 kV
    - POI : Rice County 230 kV
    - Transformer: One (1) step-up transformer connecting to the 230 kV
      - MVA: 221 MVA
      - Voltage: 230/34.5 kV
      - Z: 8.0 % on 133 MVA
  - Wind Turbines:
    - Number: One hundred and thirty four (134)
    - Manufacturer: GE
    - Type: Doubly Fed Induction Generator (DFIG)
- Machine Terminal voltage: 0.700 kV
- Rated Power: 1.5 MW
- Frequency: 60 Hz
- Generator Step-up Transformer
- MVA: 1.75
  - High voltage: 34.5 kV
  - Low voltage: 0.7 kV
  - Z: 6.00% on 1.75 MVA
- Reactive Power Capability: 0.957 (lag/lead) (100% Power rating)
- PSSE Model Used gewt\_p303cvf\_w51.lib

## 2 STUDY METHODOLOGY

### 2.1 POWER FACTOR ANALYSIS

SPP requires that the Interconnection Customer's wind farm has the ability to maintain at least +/- 0.95 power factor at the POI for all system condition (system intact and contingencies), with a POI voltage consistent with the pre-project conditions. The purpose of the power factor analysis was to verify the above requirement.

The Power Factor Analysis involved the following Steps:

- A VAR generator with large capacity (e.g. +/- 9999 MVar) was modeled at the POI of the subject wind farm. The VAR generator was set to hold the POI voltage consistent with the voltage schedule in the power flow base cases or 1 p.u whichever is higher.
- The wind farm as modeled is turned off for the power factor analysis. The wind farm is replaced by a generator at the high side bus with the MW of the wind farms at that point of interconnection and no var capability.
- Selected contingencies in the vicinity of the subject wind farm were simulated. The results were used to identify the most-limiting contingency from steady state voltage and power factor perspective.
- The power factor requirements were determined from this analysis

It is important to note that the reactive power compensation identified in this analysis was primarily needed to meet steady state criteria. The need for dynamic reactive power support, if any, was determined through transient stability analysis.

### 2.2 TRANSIENT STABILITY ANALYSIS

The purpose of the transient stability analysis is to determine the impact, if any, of the proposed wind farm project on the stability performance of the SPP transmission system and generating stations in the interconnection vicinity.

Stability analysis was performed using Siemens-PTI's PSS/E™ dynamics program V30.3.3. Three-phase and single-line-to-ground (SLG) (with re-closure where applicable) were simulated for the specified duration and synchronous machine rotor angles and wind turbine generator speeds were monitored to check whether the system is stable following the fault clearing. In addition, the voltage at the wind-farm POI and vicinity was also monitored.

For three-phase faults, a fault admittance of  $-j2E9$  was used (essentially infinite admittance representing a bolted fault). The PSS/E dynamics program only simulates the positive sequence network. However, the unbalanced fault current computation (e.g. single-phase-ground) requires the knowledge of positive, negative, and zero sequence impedances. For a single-line-to-ground (SLG) fault, the fault admittance then equals the inverse of the sum of the positive, negative and zero sequence impedances. Typically, a single line to ground fault results in a voltage of roughly 60%. The admittance needed (over and above the positive sequence) to achieve this voltage value was computed using activity TYSL in PSS/E. This additional admittance value is the equivalent of the sum of positive and negative sequence admittances. The admittance value computed in

the above step is then inserted at the faulted bus and the single line to ground fault current is computed.

The voltages at all local buses (115 kV and above) were monitored for all tested contingencies.

Another important aspect of the stability analysis was to determine the ability of the wind generators to stay connected to the grid during disturbances. This is primarily determined by their low-voltage ride-through capabilities – or lack thereof – as represented in the models by low-voltage trip settings. The Federal Energy Regulatory Commission (FERC) Post-transition period LVRT standard for Interconnection of Wind generating plants includes a Low Voltage Ride-Through (LVRT) requirement. The key features of LVRT requirements are:

- A wind generating plant must remain in-service during three-phase faults with normal clearing (maximum 9 cycles) and single-line-to-ground faults with delayed clearing, and have subsequent post-fault recovery to pre-fault voltage unless the clearing of the fault effectively disconnects the generator from the system.
- The maximum duration the wind generating plant shall be required to withstand a three-phase fault shall be 9 cycles after which, if the fault remains following the location-specific normal clearing time for three-phase faults, the wind generating plant may disconnect from the transmission system. A wind generating plant shall remain interconnected during such a fault on transmission system for a voltage level as low as zero volts, as measured at the high voltage side of the GSU connected at POI.

These criteria were used to evaluate the LVRT capability of the wind farm.

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### 3 MODEL DEVELOPMENT

SPP provided two power flow cases for this study – i) “MDWG\_2010\_2011SP\_DISIS-2011-001-1-G11.sav” and ii) “MDWG\_2010\_2011WP\_DISIS-2011-001-1-G11.sav” – representing respectively the 2010-2011 Summer Peak and Winter Peak conditions. The study cases included the following prior-queued projects:

S.No	Request	Size	Wind Turbine Model	Point of Interconnection
		(MW)		
1	GEN-2003-006A	201.0	Vestas V90 3.0MW	Elm Creek 230kV (539639)
2	GEN-2003-019	247.5	GE 1.5MW & Vestas 3.0MW	Smoky Hills 230kV (530592)
3	GEN-2006-031	75.0	Gas	Knoll 115kV (530561)
4	GEN-2006-032	200.0	Gamesa 2.0MW	South Hays 230kV (530582)
5	GEN-2008-092	201.0	GE 1.5MW	Knoll 230kV (530558)
6	GEN-2009-011	49.7	Siemens 2.3MW	Tap on the Plainville to Phillipsburg 115kV line (570911)
7	GEN-2009-008	200.0	GE 1.6MW	South Hays 230kV (530582)
8	GEN-2009-020	48.6	Vestas V90 1.8MW (GE?)	Tap on the Balzine to Nekoma 69kV line (575040)
9	GEN-2010-048	70.0	Nordex 2.5MW	Tap on the Ross Beach to Redline 115kV line (580061)

#### 3.1 MODEL DEVELOPMENT FOR GEN-2010-057 PROJECT

The models (power flow and dynamics) for the proposed project were included in the data supplied by SPP. The update suggested by SPP (Turn off the branches: 574013 - 539636 and 574015 – 539633) were included in the base case and the resulting power flow cases are saved as “MDWG\_2010\_2011SP\_DISIS-2011-001-1-G11-ABB.sav” for summer peak and “MDWG\_2010\_2011SP\_DISIS-2011-001-1-G11-ABB.sav” for winter peak. These cases were used for the analysis.

Figure 3-1 and Figure 3-2 show the one-line diagram in the local area of GEN-2011-057 for 2010-2011 summer peak and winter peak conditions respectively.

The dynamic model setup with the “snapshot” for performing stability analysis was provided by SPP. A no-disturbance simulation was performed to verify the models initialized correctly and there is no drift from the respective steady state quantities (e.g. machine angle, speeds, bus voltage etc.) over the simulation period



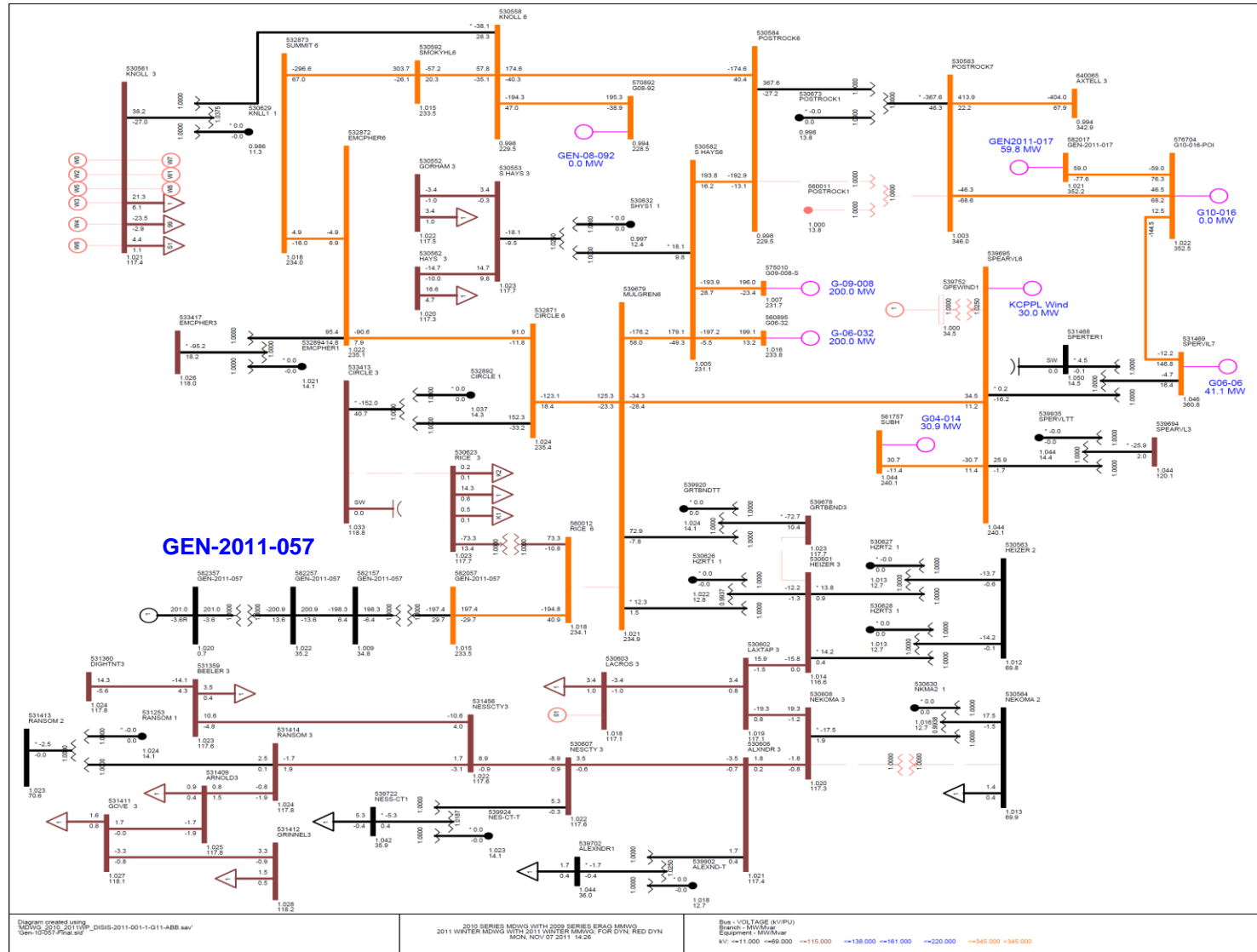


Figure 3-2 One-line Diagram of the local area of GEN-2011-057 (Winter Peak)

## 4 POWER FACTOR ANALYSIS RESULTS

The Power Factor analysis was performed to verify that the wind-farm interconnection met SPP's standard in terms of power factor and voltage requirements at the POI. Table 4-1 lists the contingencies simulated for Power Factor analysis.

Table 4-1: List of contingencies simulated for Power Factor Analysis

Contingency Name	Contingency Description
CONT_01	Loss of Rice County 230kV (560012) to 115kV (530623) transformer
CONT_02	Loss of Rice County (530623) to Lyons (530620) 115kV line
CONT_03	Loss of Circle (532871) to East McPherson (532872) 230kV line
CONT_04	Loss of Rice County (560012) to Circle (532871) 230kV line
CONT_05	Loss of Circle 230kV (532871) / 115kV (533413) transformer
CONT_06	Loss of South Hays (530582) to Mullergren (539679) 230kV line
CONT_07	Loss of Mullergren (539679) – Spearville (539695) 230kV line
CONT_08	Loss of Mullergren (539679) 230kV/Great Bend (539678) 115kV transformer
CONT_09	Loss of Pioneer Tap (539642) to Great Bend (539678) 115kV line
CONT_10	Loss of Mullergren (539679) 230kV/ Heizer (530601) 115kV transformer
CONT_11	Loss of Smoky Hills (530592) to Knoll (530558) 230kV line
CONT_12	Loss of Smoky Hills (530592) to Summit (532873) 230kV line
CONT_13	Loss of Post Rock (530584) to Knoll (530558) 230kV line
CONT_14	Loss of Post Rock (530584) to South Hays (530582) 230kV line
CONT_15	Loss of Post Rock 230kV (530584) / 345kV (530583) transformer
CONT_16	Loss of Mingo (531451) to Red Willow (640325) 345kV line
CONT_17	Loss of Reno (532771) to Summit (532773) 345kV line
CONT_18	Loss of Reno (532771) to Wichita (532796) 345kV line
CONT_19	Loss of Reno (532771) 345/115 kV transformer
CONT_20	Loss of West McPherson (533438) to Reno (533416) 115kV line
CONT_21	Loss of West McPherson (533438) to Wheatland (533439) 115kV line
CONT_22	Loss of West McPherson (533438) to McPherson (533428) 115kV line
CONT_23	Loss of West McPherson (533438) to Manville (533426) 115kV line
CONT_24	Loss of West McPherson (533438) to SPhillip (533374) 115kV line
CONT_25	Loss of Circle (533413) to HEC (533419) 115kV line
CONT_26	Loss of Circle (533413) to Reno (533416) 115kV line ckt1

As described in section 2.1, a VAR generator was modeled at POI. The VAR generator was set to hold the 230 kV POI voltage equal to that in the base case provided by SPP or 1 pu whichever is higher. In this case, the pre-project voltages were higher than 1.0 pu and therefore the VAR generator was set to hold the pre-project voltage at the POI.



The contingencies shown in Table 4-1 were simulated on 2010-2011 summer peak and winter peak load conditions. Table 4-2 lists the reactive power and power factor at the POI for the contingencies simulated.

For summer peak and winter peak load condition, CONT\_04 (Rice County (560012) to Circle (532871) 230kV line outage) showed maximum reactive power output from the VAR generator at POI and all other contingencies, with the VAR generator absorbing reactive power to maintain schedule voltage following interconnection of GEN-2011-057 project.

Table 4-2 VAR generator output at the GEN-2011-057 POI

Contingency	VOLTAGE OF VAR Gen.		Power factor at VAR Gen. terminal					
	Summer Peak	Winter Peak	Summer Peak			Winter Peak		
	(#560012)		Q (MVAR)	P (MW)	p.f (POI)	Q (MVAR)	P (MW)	p.f (POI)
Base case	1.0147	1.0177	-40.8	201	0.980	-27.9	201	0.991
CONT_01	1.0147	1.0177	-32.7	201	0.987	-20.4	201	0.995
CONT_02	1.0147	1.0177	-33.3	201	0.987	-20.9	201	0.995
CONT_03	1.0147	1.0177	-38.5	201	0.982	-27.7	201	0.991
<b>CONT_04</b>	<b>1.0147</b>	<b>1.0177</b>	<b>3.7</b>	<b>201</b>	<b>1.000</b>	<b>10</b>	<b>201</b>	<b>0.999</b>
CONT_05	1.0147	1.0177	-31.6	201	0.988	-21	201	0.995
CONT_06	1.0147	1.0177	-44.6	201	0.976	-33.4	201	0.986
CONT_07	1.0147	1.0177	-37.2	201	0.983	-24.1	201	0.993
CONT_08	1.0147	1.0177	-40.5	201	0.980	-27.3	201	0.991
CONT_09	1.0147	1.0177	-40	201	0.981	-27.1	201	0.991
CONT_10	1.0147	1.0177	-40.9	201	0.980	-28	201	0.990
CONT_11	1.0147	1.0177	-41.6	201	0.979	-29.2	201	0.990
CONT_12	1.0147	1.0177	-34	201	0.986	-19.6	201	0.995
CONT_13	1.0147	1.0177	-38	201	0.983	-24.3	201	0.993
CONT_14	1.0147	1.0177	-37.7	201	0.983	-24.2	201	0.993
CONT_15	1.0147	1.0177	-22.8	201	0.994	-3	201	1.000
CONT_16	1.0147	1.0177	-39.7	201	0.981	-24.9	201	0.992
CONT_17	1.0147	1.0177	-37.3	201	0.983	-22.7	201	0.994
CONT_18	1.0147	1.0177	-53.9	201	0.966	-42.1	201	0.979
CONT_19	1.0147	1.0177	-36.3	201	0.984	-21.1	201	0.995
CONT_20	1.0147	1.0177	-37.2	201	0.983	-22.2	201	0.994
CONT_21	1.0147	1.0177	-30.3	201	0.989	-21.5	201	0.994
CONT_22	1.0147	1.0177	-41.2	201	0.980	-28	201	0.990
CONT_23	1.0147	1.0177	-40.8	201	0.980	-27.7	201	0.991
CONT_24	1.0147	1.0177	-42.2	201	0.979	-27.3	201	0.991
CONT_25	1.0147	1.0177	-39.4	201	0.981	-28.7	201	0.990

CONT_26	1.0147	1.0177	-40.4	201	0.980	-26.8	201	0.991
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The proposed wind farm has a reactive capability corresponding to +/-0.957 pf at full MW output. Therefore, based on the study outcome in Table 4-2, the proposed wind farm is expected to maintain the necessary power factor. It may also be noted that due to the wind farm collector system requirement of approximately 40 MVAR reactive power, the wind farm generators will not be required to absorb Vars under all system conditions as noted in Table 4-2.

## 5 STABILITY ANALYSIS

Stability simulations were performed to examine the transient behavior of GEN-2011-057 project and its impact on the SPP system. Several faults, both three-phase and single phase faults (with re-closing where applicable) were simulated. The fault clearing times and re-closing times used for the simulations are shown in Table 5-1.

**Table 5-1: Fault Clearing Times**

Faulted bus kV level	Normal Clearing	Time before reclosing
115	5 cycles	20 cycles
230	5 cycles	20 cycles
345	5 cycles	20 cycles

Twenty eight (26) three phase and twenty two (20) single-line-to-ground faults (with re-closing where applicable) were simulated. For all tested cases the initial disturbance was applied at  $t = 0.1$  seconds. The breaker clearing was applied at the appropriate time following the fault inception. Table 5-2 lists all the faults simulated for transient stability analysis.

**Table 5-2 List of Simulated Faults for DISIS 2011-001 Group11**

Cont. No.	Cont. Name	Description
1	FLT01-3PH	3 phase fault on the Rice County 230kV (560012) to 115kV (530623) transformer on the 230kV bus a. Apply fault at Rice County 230kV bus b. Clear fault after 5 cycles by tripping the faulted transformer.
2	FLT04-3PH	3 phase fault on the Rice County (530623) to Lyons (530620) 115kV line, near Rice County. a. Apply fault at Rice County 115kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
3	FLT05-1PH	<i>Single phase fault and sequence like previous</i>
4	FLT08-3PH	3 phase fault on the Circle (532871) to East McPherson (532872) 230kV line, near Circle. a. Apply fault at the Circle 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
5	FLT09-1PH	<i>Single phase fault and sequence like previous</i>
6	FLT10-3PH	3 phase fault on the Rice County 230kV (560012) to Circle (532871) 230kV line, near Rice County. a. Apply fault at Rice County 230kV. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
7	FLT11-1PH	<i>Single phase fault and sequence like previous</i>
8	FLT12-3PH	3 phase fault on the Circle 230kV (532871) to 115kV (533413) transformer on the 230kV bus a. Apply fault at Circle 230kV bus b. Clear fault after 5 cycles by tripping the faulted transformer.
9	FLT13-3PH	3 phase fault on the South Hays (530582) to Mullergren (539679) 230kV line, near South Hays. a. Apply fault at South Hays 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
10	FLT14-1PH	<i>Single phase fault and sequence like previous</i>
11	FLT15-3PH	3 phase fault on the Mullergren (539679) – Spearville (539695) 230kV line, near Mullergren. a. Apply fault at Mullergren 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
12	FLT16-1PH	<i>Single phase fault and sequence like previous</i>
13	FLT17-3PH	3 phase fault on the Mullergren (539679) 230kV to Great Bend (539678) 115kV transformer on the Mullergren 230kV bus a. Apply fault at Mullergren 230kV bus b. Clear fault after 5 cycles by tripping the faulted transformer.

Cont. No.	Cont. Name	Description
14	FLT18-3PH	3 phase fault on the Pioneer Tap (539642) to Great Bend (539678) 115kV line, near Pioneer Tap. a. Apply fault at the Pioneer Tap 115kV bus b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
15	FLT19-1PH	<i>Single phase fault and sequence like previous</i>
16	FLT20-3PH	3 phase fault on the Mullergren (539679) 230kV to Heizer (530601) 115kV transformer on the Mullergren 230kV bus a. Apply fault at Mullergren 230kV bus b. Clear fault after 5 cycles by tripping the faulted transformer.
17	FLT21-3PH	3 phase fault on the Smoky Hills (530592) to Knoll (530558) 230kV line, near Smoky Hills. a. Apply fault at Smoky Hills 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
18	FLT22-1PH	<i>Single phase fault and sequence like previous</i>
19	FLT23-3PH	3 phase fault on the Smoky Hills (530592) to Summit (532873) 230kV line, near Smoky Hills. a. Apply fault at Smoky Hills 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
20	FLT24-1PH	<i>Single phase fault and sequence like previous</i>
21	FLT25-3PH	3 phase fault on the Post Rock (530584) to Knoll (530558) 230kV line, near Post Rock. a. Apply fault at Post Rock 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
22	FLT26-1PH	<i>Single phase fault and sequence like previous</i>
23	FLT27-3PH	3 phase fault on the Post Rock (530584) to South Hays (530582) 230kV line, near Post Rock. a. Apply fault at Post Rock 230kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
24	FLT28-1PH	<i>Single phase fault and sequence like previous</i>
25	FLT29-3PH	3 phase fault on one of the Post Rock 230kV (530584) to 345kV (530583) transformers, near the 230kV bus. a. Apply fault at Postrock 230kV bus. b. Clear fault after 5 cycles by tripping the faulted transformer.
26	FLT30-3PH	3 phase fault on the Mingo (531451) to Red Willow (640325) 345kV line, near Mingo. a. Apply fault at Mingo 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
27	FLT31-1PH	Single phase fault on the line in previous fault. a. Apply fault at Mingo 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.

Cont. No.	Cont. Name	Description
28	FLT32-3PH	3 phase fault on the Reno (532771) to Summit (532773) 345kV line, near Reno. a. Apply fault at Reno 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
29	FLT33-1PH	<i>Single phase fault and sequence like previous</i>
30	FLT34-3PH	3 phase fault on the Reno (532771) to Wichita (532796) 345kV line, near Reno. a. Apply fault at Reno 345kV bus. b. Clear fault after 5 cycles by tripping the faulted line.
31	FLT35-1PH	<i>Single phase fault and sequence like previous</i>
32	FLT36-3PH	3 phase fault on one of the Reno (532771) 345/115 kV transformers on the Reno 345kV bus a. Apply fault at Reno 345kV bus b. Clear fault after 5 cycles by tripping the faulted transformer.
33	FLT37-3PH	3 phase fault on the West McPherson (533438) to Reno (533416) 115kV line, near West McPherson. a. Apply fault at the West McPherson 115kV bus b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
34	FLT38-1PH	<i>Single phase fault and sequence like previous</i>
35	FLT39-3PH	3 phase fault on the West McPherson (533438) to Wheatland (533439) 115kV line, near West McPherson. a. Apply fault at the West McPherson 115kV bus b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
36	FLT40-1PH	<i>Single phase fault and sequence like previous</i>
37	FLT41-3PH	3 phase fault on the West McPherson (533438) to McPherson (533428) 115kV line, near West McPherson. a. Apply fault at the West McPherson 115kV bus b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
38	FLT42-1PH	<i>Single phase fault and sequence like previous</i>
39	FLT43-3PH	3 phase fault on the West McPherson (533438) to Manville (533426) 115kV line, near West McPherson. a. Apply fault at the West McPherson 115kV bus b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
40	FLT44-1PH	<i>Single phase fault and sequence like previous</i>
41	FLT45-3PH	3 phase fault on the West McPherson (533438) to SPhillip (533374) 115kV line, near West McPherson. a. Apply fault at the West McPherson 115kV bus b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
42	FLT46-1PH	<i>Single phase fault and sequence like previous</i>
43	FLT47-3PH	3 phase fault on the Circle (533413) to HEC (533419) 115kV line, near Circle. a. Apply fault at the Circle 115kV bus b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
44	FLT48-1PH	<i>Single phase fault and sequence like previous</i>

Cont. No.	Cont. Name	Description
45	FLT49-3PH	3 phase fault on the Circle (533413) to Reno (533416) 115kV line ckt1, near Circle. a. Apply fault at the Circle 115kV bus b. Clear fault after 5 cycles by tripping the faulted line. c. Wait 20 cycles, and then re-close the line in (b) back into the fault. d. Leave fault on for 5 cycles, then trip the line in (b) and remove fault.
46	FLT50-1PH	<i>Single phase fault and sequence like previous</i>

The system was stable for all the simulated 3-Phase and single-phase faults. The proposed GEN-2011-057 wind farm stayed on-line throughout the duration of the fault and thereof. The voltage recovery was acceptable, and the oscillations were damped out. A sample response of GEN-2011-057 project is shown in Figure 5-1 from the simulation of FLT10\_3PH. This fault is a 3 Phase fault at the POI.

For FLT25\_3PH, FLT27\_3PH, FLT29\_3PH in both summer and winter peak as well as FLT13\_3PH for summer peak conditions, the results indicated tripping of the prior queued project, GEN-2006-032 on over-voltage after fault clearing. The above faults, when re-run with capacitor bank at GEN-2006-032 bus turned off, no such tripping was observed. Hence the tripping of the prior queued project, GEN-2006-032 is not attributable to GEN-2010-057 interconnection.

Table 5-3 summarizes the stability analysis results for 2010-2011 summer peak and winter peak system conditions.

The plots from the transient stability analysis are included in Appendix B.

**Table 5-3 Results of stability analysis**

FAULT	2011 Summer Peak			2011 Winter Peak		
	Pre-Project	Post-Project		Pre-Project	Post-Project	
		Stable?	Acceptable Voltages?		Stable?	Acceptable Voltages?
FLT01_3PH	---	STABLE	YES	---	STABLE	YES
FLT04_3PH	---	STABLE	YES	---	STABLE	YES
FLT05_1PH	---	STABLE	YES	---	STABLE	YES
FLT08_3PH	---	STABLE	YES	---	STABLE	YES
FLT09_1PH	---	STABLE	YES	---	STABLE	YES
FLT10_3PH	---	STABLE	YES	---	STABLE	YES
FLT11_1PH	---	STABLE	YES	---	STABLE	YES
FLT12_3PH	---	STABLE	YES	---	STABLE	YES
FLT13_3PH	---	STABLE	YES	---	STABLE	YES
FLT14_1PH	---	STABLE	YES	---	STABLE	YES
FLT15_3PH	---	STABLE	YES	---	STABLE	YES
FLT16_1PH	---	STABLE	YES	---	STABLE	YES
FLT17_3PH	---	STABLE	YES	---	STABLE	YES
FLT18_3PH	---	STABLE	YES	---	STABLE	YES
FLT19_1PH	---	STABLE	YES	---	STABLE	YES
FLT20_3PH	---	STABLE	YES	---	STABLE	YES
FLT21_3PH	---	STABLE	YES	---	STABLE	YES
FLT22_1PH	---	STABLE	YES	---	STABLE	YES
FLT23_3PH	---	STABLE	YES	---	STABLE	YES
FLT24_1PH	---	STABLE	YES	---	STABLE	YES
FLT25_3PH	---	STABLE	YES	---	STABLE	YES
FLT26_1PH	---	STABLE	YES	---	STABLE	YES
FLT27_3PH	---	STABLE	YES	---	STABLE	YES
FLT28_1PH	---	STABLE	YES	---	STABLE	YES
FLT29_3PH	---	STABLE	YES	---	STABLE	YES
FLT30_3PH	---	STABLE	YES	---	STABLE	YES
FLT31_1PH	---	STABLE	YES	---	STABLE	YES
FLT32_3PH	---	STABLE	YES	---	STABLE	YES
FLT33_1PH	---	STABLE	YES	---	STABLE	YES
FLT34_3PH	---	STABLE	YES	---	STABLE	YES
FLT35_1PH	---	STABLE	YES	---	STABLE	YES

FAULT	2011 Summer Peak			2011 Winter Peak		
	Pre-Project	Post-Project		Pre-Project	Post-Project	
		Stable?	Acceptable Voltages?		Stable?	Acceptable Voltages?
FLT36_3PH	---	STABLE	YES	---	STABLE	YES
FLT37_3PH	---	STABLE	YES	---	STABLE	YES
FLT38_1PH	---	STABLE	YES	---	STABLE	YES
FLT39_3PH	---	STABLE	YES	---	STABLE	YES
FLT40_1PH	---	STABLE	YES	---	STABLE	YES
FLT41_3PH	---	STABLE	YES	---	STABLE	YES
FLT42_1PH	---	STABLE	YES	---	STABLE	YES
FLT43_3PH	---	STABLE	YES	---	STABLE	YES
FLT44_1PH	---	STABLE	YES	---	STABLE	YES
FLT45_3PH	---	STABLE	YES	---	STABLE	YES
FLT46_1PH	---	STABLE	YES	---	STABLE	YES
FLT47_3PH	---	STABLE	YES	---	STABLE	YES
FLT48_1PH	---	STABLE	YES	---	STABLE	YES
FLT49_3PH	---	STABLE	YES	---	STABLE	YES
FLT50_1PH	---	STABLE	YES	---	STABLE	YES





2010 SERIES MDWG WITH 2009 SERIES ERAG MMWG  
 2011 SUMMER MDWG WITH 2011 SUMMER MMWG; FOR DYN; RED DYN  
 3 PHASE FAULT AT RICE COUNTY 230KV (560012)  
 TRIP RICE COUNTY TO CIRCLE (532871) 230KV LINE  
 FILE: FLT10\_3PH.OUT

FRI, NOV 11 2011 13:42  
 GEN-10-057 PLOTS

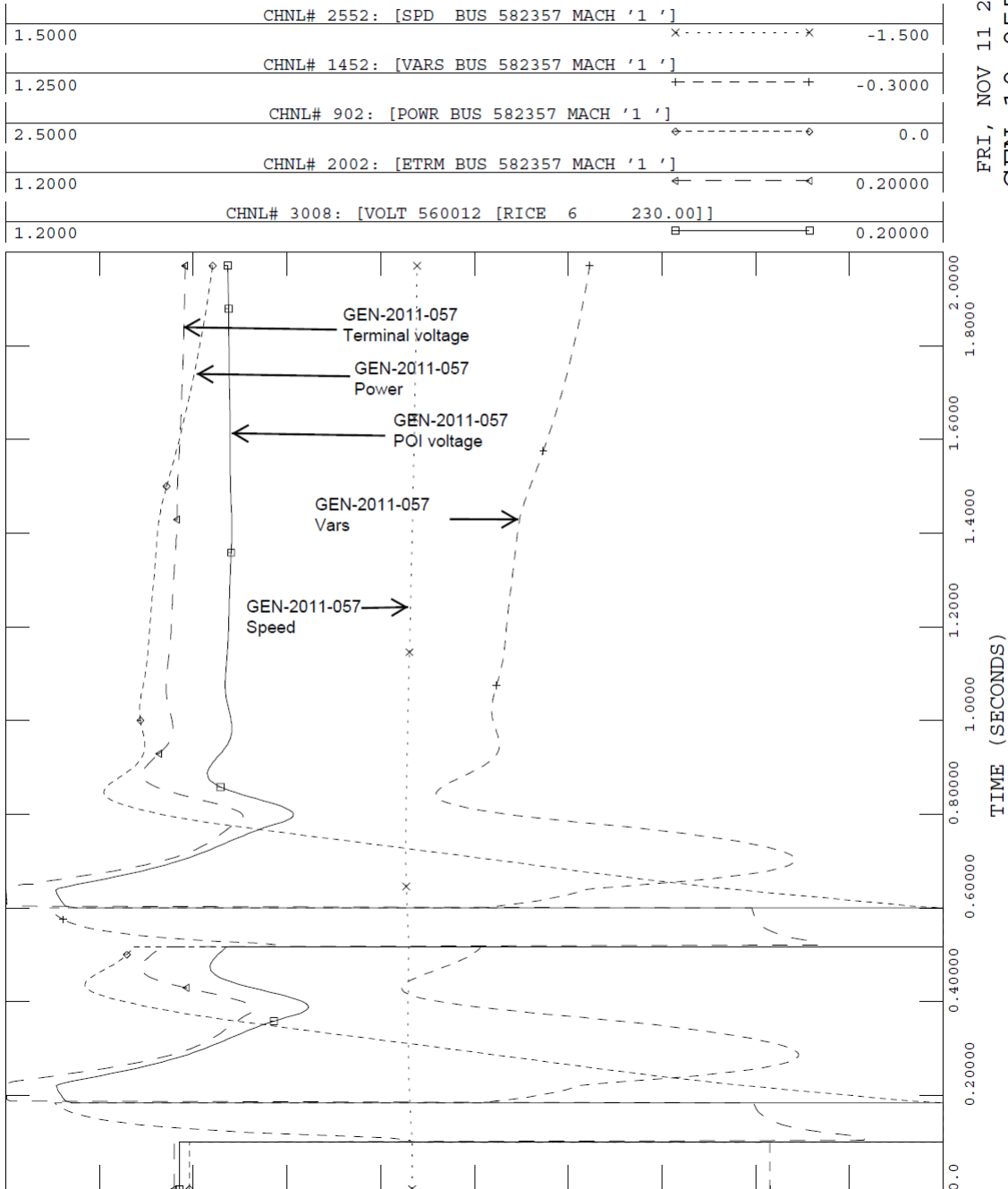


Figure 5-1 Response of GEN-2010-057 project for FLT10\_3PH (summer peak)

## 5.1 FERC LVRT COMPLIANCE

The proposed Group 11 wind farm was modeled with the low voltage ride through capacity. To determine the LVRT compliance of the Group 11 wind farm, a total of four (4) faults were simulated. These faults were simulated at the POI of Group 11 wind farm project and cleared by tripping one transmission element. Table 5-4 lists the faults simulated for LVRT analysis.

**Table 5-4: List of faults for FERC LVRT compliance**

Fault Name	Description
FLT01_3PH_LVRT	3 phase fault on the Rice County 230kV (560012) to 115kV (530623) transformer on the 230kV bus
	a. Apply fault at Rice County 230kV bus
	b. Clear fault after 9 cycles by tripping the faulted transformer.
FLT01_1PH_LVRT	1 Phase fault Delayed Clearing (9 Cycles + 6 Cycles) and sequence like previous
FLT02_3PH_LVRT	3 phase fault on the Rice County 230kV (560012) to Circle (532871) 230kV line, near Rice County.
	a. Apply fault at Rice County 230kV bus.
	b. Clear fault after 9 cycles by tripping the faulted line.
FLT02_1PH_LVRT	1 Phase fault Delayed Clearing (9 Cycles + 6 Cycles) and sequence like previous

The results of the simulations indicated that the GEN-2010-057 wind farm project stayed online for all the faults at the POI in summer and winter peak cases.

Therefore the subject wind farm is expected to meet the FERC LVRT criteria for the interconnection (FERC Order 661 – A). The response of GEN-2011-057 project for FLT\_02\_LVRT\_3PH is given in Figure 5-2.

The results from the FERC LVRT compliance evaluation are included in Appendix C.



2010 SERIES MDWG WITH 2009 SERIES ERAG MMWG  
 2011 SUMMER MDWG WITH 2011 SUMMER MMWG; FOR DYN; RED DYN  
 3 PHASE FAULT AT RICE COUNTY 230KV (560012)  
 TRIP RICECOUNTY TO CIRCLE (532871) 230KV LINE  
 FILE: FLT02\_3PH\_LVRT.OUT

FRI, NOV 11 2011 13:40  
 GEN-10-057 PLOTS

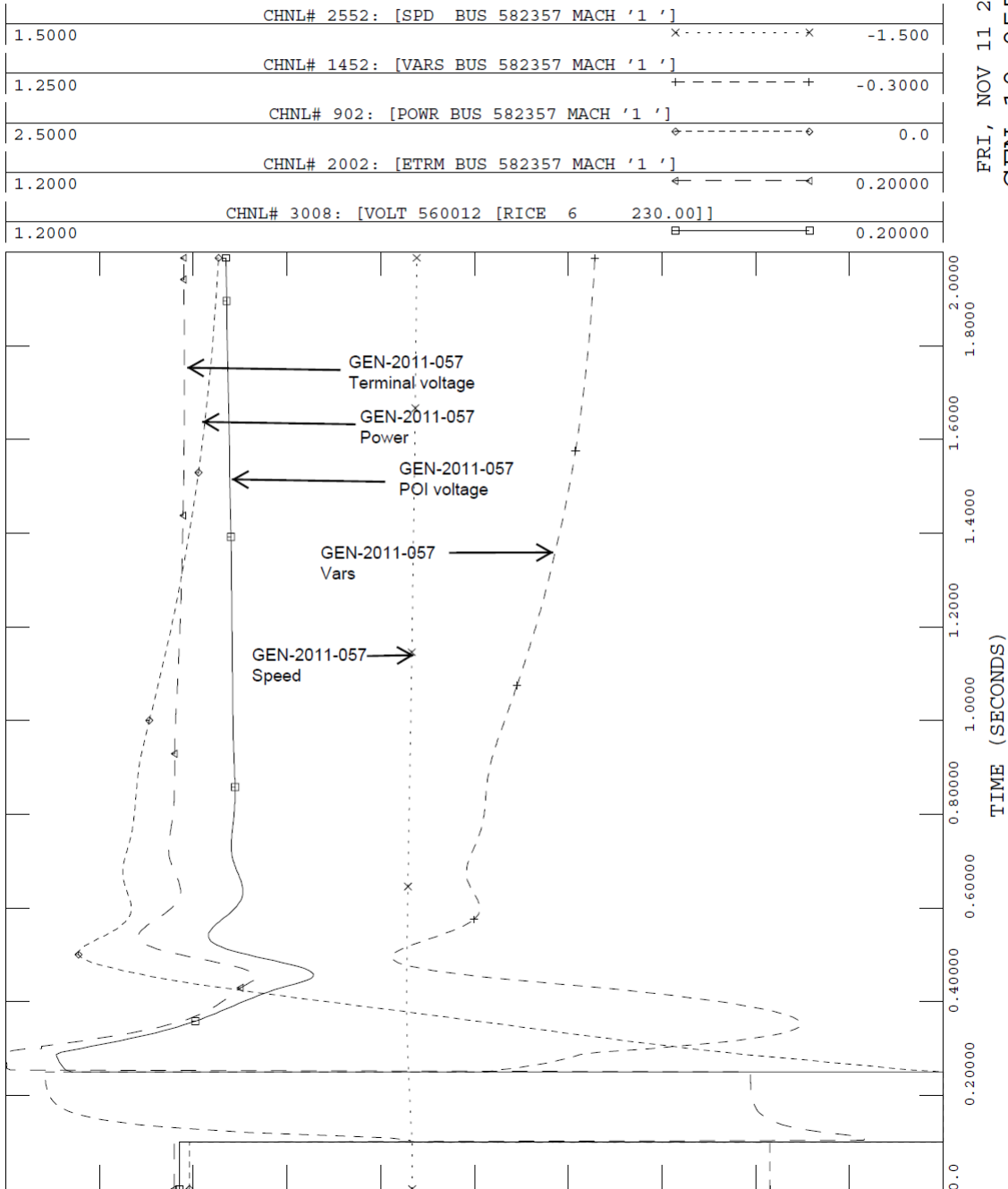


Figure 5-2 Response of GEN-2010-057 for FLT\_02\_LVRT\_3PH (summer peak)

## 6 CONCLUSIONS

A summary of the study findings is given below:

### **Power factor analysis**

SPP requires that the Interconnection Customer's wind farm maintain at least +/- 0.95 power factor at the POI for all system condition (system intact and contingencies), with a POI voltage consistent with the pre-project conditions. Based on the study outcome, the proposed wind farm is expected to maintain the necessary power factor at the POI.

### **Stability Analysis**

A stability analysis was performed to determine the impact, if any, of the proposed project on the stability of SPP system. The system was found to be stable for all the tested 3-phase faults and single-line-to-ground (SLG) faults (with line re-closing, where applicable).

### **FERC Order 661A Compliance**

Selected faults were simulated at the Point of Interconnection (POI) of the proposed DISIS-2011-001-1 Group 11 wind farm to determine the compliance with FERC 661 – A post-transition period LVRT standard. The results indicated that the proposed project met the FERC LVRT requirement for wind farm interconnection.

Based on the results of the analysis, it can be concluded that the proposed GEN-2010-057 wind farm does not adversely impact the transmission performance of the SPP system.

*The results of this analysis are based on available data and assumptions made at the time of conducting this study. If any of the data and/or assumptions made in developing the study model change, the results provided in this report may not apply and additional analysis may be required.*

**S: Stability Study for Group 12**

- No requests were located in the cluster group

**T: Stability Study for Group 13**

## **U: Stability Study for Group 14**

**V: Stability Study for Group 15**

- No requests were located in the cluster group