

Definitive Interconnection
System Impact Study for
Generation Interconnection
Requests
(DISIS-2011-001-5)

May 2014

Generation Interconnection

Revision History

Date	Author	Change Description
07/29/2011	SPP	Report Issued (DISIS-2011-001)
12/16/2011	SPP	Account for Withdrawn Projects, Report Re-Posted (DISIS-2011-001-1)
05/04/2012	SPP	Account for Withdrawn Projects, Report Re-Posted (DISIS-2011-001-2)
02/05/2013	SPP	Account for Withdrawn Projects, Report Re-Posted (DISIS-2011-001-3)
12/19/2013	SPP	Account for Withdrawn Projects, Report Re-Posted (DISIS-2011-001-4)
05/19/2014	SPP	Account for Withdrawn Projects, Report Re-Posted (DISIS-2011-001-5)

Executive Summary

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 System Impact Cluster Study window which closed March 31, 2011. The customers will be referred to in this study as the DISIS-2011-001 Interconnection Customers. This System Impact Study analyzes the interconnecting of multiple generation interconnection requests associated with new generation totaling approximately 3,260.6 MW of new generation which would be located within the transmission systems of American Electric Power-West (AEPW), Kansas City Power & Light (KACP), Midwest Energy Inc. (MIDW), Missouri Public Service (MIPU), Nebraska Public Power District (NPPD), Oklahoma Gas and Electric (OKGE), Sunflower Electric Power Corporation/Mid-Kansas Electric Power LLC (SUNC)/(MKEC), Southwestern Public Service (SPS). The various generation interconnection requests have differing proposed in-service dates¹. The generation interconnection requests included in this System Impact Cluster Study are listed in Appendix A by their queue number, amount, requested interconnection service, area, requested interconnection point, proposed interconnection point, and the requested in-service date. This restudy was performed to account for withdrawals within the DISIS-2011-001 study and/or higher queued projects withdrawing.

Power flow analysis has indicated that for the power flow cases studied, 3,260.6 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.

It should be noted that although this study analyzed many of the most probable contingencies, it is not an all-inclusive list that can account for every operational situation. Additionally, the generator[s] may not be able to inject any power onto the Transmission System due to constraints that fall below the threshold of mitigation for a Generator Interconnection request. Because of this, it is likely that the Customer[s] may be required to reduce their generation output to 0 MW under certain system conditions to allow system operators to maintain the reliability of the transmission network.

The total estimated minimum cost for interconnecting the DISIS-2011-001 interconnection customers is \$309,438,604.99. These costs are shown in Appendix E and F. Interconnection Service

¹ 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.

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 identified and shown in Appendix H.

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 (ERIS) Interconnection Request. Certain Interconnection Requests were also studied for Network Resource Interconnection Service (NRIS). Those constraints are also 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

Pursuant to the Southwest Power Pool (SPP) Open Access Transmission Tariff (OATT), SPP has conducted this Definitive Interconnection System Impact Study (DISIS) for certain generation interconnection requests in the SPP Generation Interconnection Queue. These interconnection requests have been clustered together for the following System Impact Study window which closed March 31, 2011. The customers will be referred to in this study as the DISIS-2011-001 Interconnection Customers. This System Impact Study analyzes the interconnecting of multiple generation interconnection requests associated with new generation totaling 3,260.6 MW of new generation which would be located within the transmission systems of American Electric Power-West (AEPW), Kansas City Power & Light (KACP), Midwest Energy Inc. (MIDW), Missouri Public Service (MIPU), Nebraska Public Power District (NPPD), Oklahoma Gas and Electric (OKGE), Sunflower Electric Power Corporation/Mid-Kansas Electric Power LLC (SUNC)/(MKEC), Southwestern Public Service (SPS). The various generation interconnection requests have differing proposed in-service dates². The generation interconnection requests included in this System Impact Study are listed in Appendix A by their queue number, amount, requested interconnection service, area, requested interconnection point, proposed interconnection point, and the requested in-service date. This restudy was performed to account for withdrawals within the DISIS-2011-001 study and/or higher queued projects withdrawing.

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.

² 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.

Model Development

Interconnection Requests Included in the Cluster

SPP has included all interconnection requests that submitted a Definitive Interconnection System Impact Study Agreement 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. The interconnection requests that are included in this study are listed in Appendix A.

Affected System Interconnection Requests

Also included in this Definitive Impact Study are two Affected System Studies, both located on the Southwestern Public Service Company distribution system and shares connections to the SPS transmission system. The Affected System Study Requests has been given the designations: ASGI-2011-002 (20 MW, POI is Herring 115kV), and ASGI-2011-003 (10 MW, POI is Hendricks 115kV).

Previously Queued Interconnection Requests

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

Development of Base Cases

Power Flow

The 2013 series Transmission Service Request (TSR) Models 2014 spring, 2014 summer and winter peak, 2019 summer and winter peak, and the 2024 summer peak scenario 0 cases were used for this study. After the cases were developed, each of the control areas' resources were then re-dispatched to account for the new generation requests using current dispatch orders.

Dynamic Stability

The 2013 series SPP Model Development Working Group (MDWG) Models 2014 winter, 2015 summer, and 2024 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 an approved Notice to Construct (NTC), or are in construction stages and were assumed to be in-service at the time of dispatch and added to the base case models. The DISIS-2011-001 Customers have not been assigned acceleration costs 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 Interconnection Customers.

- Hitchland 230/115kV area projects³:
 - Hitchland – Ochiltree 230kV Project, (placed in-service 2013)
- Balanced Portfolio Projects⁴:
 - Woodward – Border – TUCO 345kV project, scheduled for 5/19/2014 in-service
 - Woodward 345/138kV circuit #2 autotransformer
 - TUCO 345/138kV circuit #2 autotransformer
 - Reactors at Woodward and Border
 - Iatan– Nashua 345kV, scheduled for 6/1/2015 in-service
 - Nashua 345/161kV autotransformer
 - Muskogee– Seminole 345kV, scheduled for 12/31/2013 in-service
 - Cleveland – Sooner 345kV, (placed in-service 2012)
 - Tap Stillwell – Swissvale 345kV line at West Gardner, (placed in-service 2013)
- Priority Projects⁵:
 - Hitchland – Woodward double circuit 345kV, scheduled for 6/30/2014 in-service
 - Hitchland 345/230kV circuit #2 autotransformer
 - Woodward – Thistle double circuit 345kV, scheduled for 12/31/2014 in-service
 - Spearville – Clark double circuit 345kV, scheduled for 12/31/2014 in-service
 - Clark – Thistle double circuit 345kV, scheduled for 12/31/2014 in-service
 - Thistle – Wichita double circuit 345kV, scheduled for 12/31/2014 in-service
 - Thistle 345/138kV autotransformer, scheduled for 12/31/2014 in-service
 - Thistle – Flat Ridge 138kV, scheduled for 12/31/2014 in-service
- Various MKEC Transmission System Upgrades⁶
 - Harper – Flat Ridge 138kV rebuild (placed in-service in 2013)
 - Flat Ridge – Medicine Lodge 138kV rebuild, scheduled for 12/31/2013 in-service
 - Pratt – Medicine Lodge 115kV rebuild, scheduled for 6/15/2014 in-service
 - Medicine Lodge 138/115kV autotransformer replacement (placed in-service in 2013)
- Northwest 345/138/13.8kV circuit #3 autotransformer, scheduled for 6/1/2017 in-service⁷
- Woodward (OKGE) – Woodward (WFEC) 69kV rebuild, scheduled for 6/1/2015 in-service⁸
- Sheldon – SW7th and Pleasant Hill 115kV circuit #2 rebuild (placed in-service in 2013)⁹
- Moundridge 138/115/13.8kV autotransformer circuit #2, scheduled for 12/1/2014 in-service¹⁰

³ SPP Regional Reliability Projects identified in 2007 STEP. As of the writing of this report, SPP Project Tracking TAGIT shows some of these project's in-service dates have been delayed from the original 2010/2011 in-service dates.

⁴ Notice to Construct (NTC) issued June 2009.

⁵ Notice to Construct (NTC) issued June 2010.

⁶ SPP Transmission Service Projects identified in SPP-2007-AG3-AFS-9.

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

⁸ SPP Regional Reliability Project. Per SPP-NTC-20003.

⁹ SPP Regional Reliability 2012 ITPNT Project. Per SPP-NTC-200171.

¹⁰ SPP Regional Reliability 2012 ITP10 Project. Per SPP-NTC-200181.

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. This list may not be all inclusive. 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.

- Upgrades assigned to ICS-2008-001 Interconnection Customers
 - Line Traps at Amarillo South – Swisher 230kV
- Upgrades assigned to DISIS-2009-001 Interconnection Customers:
 - Lancer Project
 - Spearville – Lancer 345kV, addition
 - Lancer 345/115kV transformer circuit #1, addition
 - Lancer – North Ft. Dodge 115kV, addition
 - Ft. Dodge – North Ft. Dodge circuit #2, addition
 - Move Ft. Dodge terminal of Shooting Star 115kV
 - Fort Randall – Meadow Grove – Kelly 230kV circuit #1, rerate (320MVA)
- Upgrades assigned to DISIS-2010-001 Interconnection Customers:
 - Beaver County 345kV Expansion (Tap & Tie Hitchland – Woodward circuit #2 into Beaver County 345kV)
 - Switch 2749 – Wildorado 69kV circuit #1, rebuild
- Upgrades assigned to DISIS-2010-002 Interconnection Customers:
 - Buckner –Spearville 345kV circuit #1, replace terminal equipment
 - Twin Church – Dixon County 230kV circuit #1, rerate (320MVA)

Potential Upgrades Not in the Base Case

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

Regional Groupings

The interconnection requests listed in Appendix A were grouped together in fifteen different regional groups based on geographical and electrical impacts. These groupings are shown in Appendix C.

To determine interconnection impacts, fifteen different generation dispatch scenarios 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 100% nameplate of maximum generation. The other wind generating plants in each area were modeled at 80% nameplate while the wind generating plants in the other areas were modeled at 20% nameplate of maximum generation. 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. Other sensitivity analyses are also performed with each interconnection request modeled at 100% nameplate.

Peaking units were not dispatched in the 2014 spring model. To study peaking units' impacts, the 2014 summer and winter, 2019 summer and winter, and 2024 summer peak seasonal 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.

Dynamic Stability

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

Identification of Network Constraints

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 have requested Network Resource Interconnection Service (NRIS) were also studied in the NRIS analysis to determine if any constraint had at least a 3% DF. If so, these constraints were considered for mitigation.

Determination of Cost Allocated Network Upgrades

Cost Allocated Network Upgrades of wind generation interconnection requests were determined using the 2014 spring model. Cost Allocated Network Upgrades of peaking units was determined using the 2019 summer peak model. A MUST sensitivity analysis was performed to determine the Distribution Factors (DF), a distribution factor with no contingency that each generation interconnection request had on each new upgrade. The impact each generation interconnection request had on each upgrade project was weighted by the size of each request. Finally the costs due by each request for a particular project were then determined by allocating the portion of each request's impact over the impact of all affecting requests.

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

- Determine an Impact Factor on a given project for all responsible GI requests:

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

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

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

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

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

- Repeat previous for each responsible GI request for each Project

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

Credits 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.

Required Interconnection Facilities

The requirement to interconnect the 3,260.6 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 \$309,438,604.99. Interconnection Facilities specific to each generation interconnection request are listed in Appendix E. A preliminary one-line drawing for each generation interconnection request are listed in Appendix D.

A list of constraints that were identified and used for mitigation are listed in Appendix G. Listed within Appendix G are the ERIS constraints with greater than or equal to a 20% DF, as well as, the NRIS constraints that have a DF of 3% or greater. Other Network Constraints which are not requiring mitigation 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.

Power Flow Analysis

Power Flow Analysis Methodology

The ACCC function of PSS/E was used to simulate single element and special (i.e., breaker-to-breaker, multi-element, etc) contingencies in portions or all of the modeled control areas of SPP, as well as, other control areas external to SPP and the resulting scenarios analyzed. NERC Category “B” and “C” contingencies were evaluated.

Power Flow Analysis

A power flow analysis was conducted for each Interconnection Customer’s facility using modified versions of the 2014 spring peak, 2014 summer and winter peak, and the 2019 summer and winter peak, and 2024 summer peak models. The output of the Interconnection Customer’s facility was offset in each model by a reduction in output of existing online SPP generation. This method allows the request to be studied as an Energy Resource (ER) Interconnection Request. Certain requests that requested Network Resource Interconnection Service (NRIS) had an additional analysis conducted for displacing resources 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 criteria violations will occur on the NPPD, OKGE, SPS, SUNC transmission systems under system intact and contingency conditions in the peak seasons.

Cluster Group 1 (Woodward Area)

In addition to the 2,731.3 MW of previously queued generation in the area, 948.9 MW of new interconnection service was studied. Previously identified ERIS constraints (Tatonga-Mathewson-Cimarron 345kV line) were no longer observed due to the withdrawal of higher queued Interconnection Requests. No new ERIS constraints were found. For NRIS there were two overloads: Mooreland – FPL Switch – Woodward 138kV circuit 1 will need to be rebuilt for thermal overloads and Glass Mountain – Mooreland 138kV circuit 1.

Group 1: NRIS Constraints			
MONITORED ELEMENT	RATE B (MVA)	TC%LOADING (% MVA)	CONTINGENCY
FPL SWITCH - MOORELAND 138KV CKT 1	287	102.9517	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FPL SWITCH - WOODWARD 138KV CKT 1	153	151.9091	NORTHWEST - TATONGA7 345.00 345KV CKT 1
GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	103.2143	NORTHWEST - TATONGA7 345.00 345KV CKT 1
NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1	493	103.6268	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1

Cluster Group 2 (Hitchland Area)

In addition to the 2,142.2 MW of previously queued generation in the area, 520.0 MW of new interconnection service was studied. Previously identified ERIS constraints (Beaver-Buckner 345kV line) were no longer observed due to the withdrawal of equally queued Interconnection Requests.

No new ERIS constraints were found. For NRIS there were several overloads: FPL Switch – Woodward 138kV will need to be mitigated for thermal overloads. A second Hitchland 230/115/13.2kV transformer is needed due to the outage of the Hitchland Interchange – Ochiltree 230kV line. Canyon East Sub – Randall County Interchange 115kV circuit 1 will use SPP-2011-AG3-AFS-11 from Transmission services study with an in-service date of 6/1/2017. There is also a need for TUCO 345kV – New Deal 345/115kV – Stanton 115kV (SPP-NTC-200184) due to the overloads on TUCO 230/115kV transformer circuit 1 caused by the outage of TUCO 230/115kV transformer circuit 2. This upgrade causes the Indiana – Stanton 115kV line to overload. Also the Wolfforth Interchange 230/115kV transformer will need to be replaced.

Group 2: NRIS Constraints			
MONITORED ELEMENT	RATE B (MVA)	TC%LOADING (% MVA)	CONTINGENCY
CANYON EAST SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	100.5466	BUFFALO 230.00 - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FPL SWITCH - WOODWARD 138KV CKT 1	153	154.4606	NORTHWEST - TATONGA7 345.00 345KV CKT 1
HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	112.0505	OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1
INDIANA SUB - STANTON SUB 115KV CKT 1	160	107.2178	CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1
OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1	185	112.4037	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1
TUCO INTERCHANGE (GE M102345) 230/115/13.2KV TRANSFORMER CKT 1	252	114.0418	TUCO INTERCHANGE (ENRCO 136401) 230/115/13.2KV TRANSFORMER CKT 2
WOLFFORTH INTERCHANGE (WH 7001668) 230/115/13.2KV TRANSFORMER CKT 1	168	102.5731	CARLISLE INTERCHANGE - LP-DOUD_TP 3115.00 115KV CKT 1

Cluster Group 3 (Spearville Area)

In addition to the 2,588.8 MW of previously queued generation in the area, 1,099.1 MW of new interconnection service was studied. Stability and power flow analysis shows that the Beaver County – Buckner 345kV upgrade will be needed to alleviate potential voltage stability issues for the outage of Axtell – Post Rock 345kV circuit 1, Buckner – Holcolmb 345kV circuit 1, G11-17T – Post Rock 345kV circuit 1, G11-17T – Spearville 345kV circuit 1, Finney – Hitchland 345kV circuit 1, Finney – Holcomb 345kV circuit 1 and Clark County – Thistle 345kV circuit 1 and 2. No NRIS constraints were found in this area.

Group 3: ERIS Constraints			
MONITORED ELEMENT	RATE B (MVA)	TC%LOADING (% MVA)	CONTINGENCY
Non-converged Contingency	1792	-	AXTELL - POST ROCK 345KV CKT 1
Non-converged Contingency	717.1	-	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1
Non-converged Contingency	1793	-	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1
Non-converged Contingency	1793	-	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2
Non-converged Contingency	1052	-	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
Non-converged Contingency	1052	-	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
Non-converged Contingency	1793	-	G11-17T 345.00 - POST ROCK 345KV CKT 1
Non-converged Contingency	1793	-	G11-17T 345.00 - SPEARVILLE 345KV CKT 1

Cluster Group 4 (NW Kansas Group)

In addition to the 1,687.1 MW of previously queued generation in the area, 201.0 MW of new interconnection service was studied. The addition of the 201.0 MW caused the need for the

conversion of the Rice-Circle 230kV line and a rebuild of some 115kV lines in Midwest. These upgrades have been completed and are in-service. No new constraints were found in this area.

Cluster Group 5 (Amarillo Area)

In addition to the 932.6 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 1,761.0 MW of previously queued generation in the area, 92.3 MW of new interconnection service was studied.

Cluster Group 7 (Southwestern Oklahoma)

In addition to the 1,568.2 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 8 (South Central Kansas/North Oklahoma)

In addition to the 1,754.6 MW of previously queued generation in the area, 4.5 MW of new interconnection service was studied. No new constraints for mitigation were found in this area.

Cluster Group 9/10 (Nebraska)

In addition to the 1,265.6 MW of previously queued generation in the area, 193.6 MW of new interconnection service was studied. To integrate the request located in this area, Twin Church – Hoskins 230kV will need to have work done to raise the ratings of the line.

Group 9: ERIE Constraints				
MONITORED ELEMENT		RATE B (MVA)	TC%LOADING (% MVA)	CONTINGENCY
G10-51T	230.00 - HOSKINS 230KV CKT 1	225	142.9133	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1
G10-51T	230.00 - TWIN CHURCH 230KV CKT 1	320	100.6319	G10-51T 230.00 - HOSKINS 230KV CKT 1

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 84.6 MW of previously queued generation in the area, 201.2 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 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.

Curtailement and System Reliability

In no way does this study guarantee operation for all periods of time. It should be noted that although this study analyzed many of the most probable contingencies, it is not an all-inclusive list and cannot account for every operational situation. Because of this, it is likely that the Customer[s]

may be required to reduce their generation output to 0 MW under certain system conditions to allow system operators to maintain the reliability of the transmission network.

Stability Analysis

A stability analysis was conducted for each Interconnection Customer's facility using modified versions of the 2013 series SPP Model Development Working Group (MDWG) Models 2014 winter, 2015 summer, and 2024 summer peak dynamic 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.

Cluster Group 1 (Woodward Area)

The Group 1 stability analysis for this restudy was performed by SPP Staff. This analysis was performed to evaluate the impacts of the removal of the previously assigned Tatonga-Mathewson-Cimarron 345kV line. Stability analysis has determined that when all previously assigned and currently assigned network upgrades are placed in-service the transmission system will remain stable and low voltage ride through requirements are satisfied for the contingencies studied.

Power Factor analysis was not performed again for this restudy. With the power factor requirements and all network upgrades in service, all interconnection requests in Group 1 will meet FERC Order #661A low voltage ride through (LVRT) requirements.

Cluster Group 2 (Hitchland Area)

The Group 2 stability analysis for this restudy was performed by SPP Staff. This analysis was performed to evaluate the impacts of the removal of the previously assigned Beaver-Buckner 345kV line. Stability analysis has determined that when all previously assigned and currently assigned network upgrades are placed in-service the transmission system will remain stable and low voltage ride through requirements are satisfied for the contingencies studied.

Power Factor analysis was not performed again for this restudy. With the power factor requirements and all network upgrades in service, all interconnection request in Group 2 will meet FERC Order #661A low voltage ride through (LVRT) requirements.

Cluster Group 3 (Spearville Area)

The Group 3 stability analysis for this restudy was performed by SPP Staff. Stability analysis has determined that when all previously assigned and currently assigned network upgrades are placed in-service the transmission system will remain stable and low voltage ride through requirements are satisfied for the contingencies studied.

Power Factor analysis was not performed again for this restudy. 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.

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 analysis was not performed again for this restudy.

Cluster Group 7 (Southwest Oklahoma Area)

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

Cluster Group 8 (South Central Kansas/North Oklahoma)

The Group 8 stability analysis was not performed again for this restudy.

Cluster Group 9/10 (Nebraska)

The Group 9/10 stability analysis was not performed again for this restudy.

Cluster Group 11 (North Central Kansas Area)

The Group 11 stability analysis was not performed again for this restudy.

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 not performed again for this restudy.

Cluster Group 14 (South Central Oklahoma)

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

Cluster Group 15 (reserved)

This group has been retired and all prior Group 15 requests have been re-designated as Group 9/10 requests.

Conclusion

The minimum cost of interconnecting 3,260.6 MW of new interconnection requests included in this Definitive Interconnection System Impact Study is estimated at \$309,438,604.99 for the Allocated Network Upgrades and Transmission Owner Interconnection Facilities are listed in Appendix E and F. These costs do not include the cost of upgrades of other transmission facilities listed in Appendix H which are Network Constraints.

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

Appendix

A: Generation Interconnection Requests Considered for Impact Study

See next page.

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*
ASGI-2011-002	20.00	ER	SPS	Herring 115kV	Herring 115kV		TBD
ASGI-2011-003	10.00	ER	SPS	Hendricks 115kV	Hendricks 115kV		TBD
GEN-2010-055	4.50	ER	AEPW	Wekiwa 138kV	Wekiwa 138kV	12/31/2011	TBD
GEN-2010-056	151.20	ER/NR	MIPU	Tap Saint Joseph - Cooper 345kV	Tap Saint Joseph - Cooper 345kV	6/1/2012	TBD
GEN-2010-057	201.00	ER/NR	MIDW	Rice County 230kV	Rice County 230kV	8/1/2012	TBD
GEN-2011-007	250.10	ER	OKGE	Tap Cimarron - Woodring (Matthewson) 345kV	Tap Cimarron - Woodring (Mathewson) 345kV	11/30/2011	12/31/2014
GEN-2011-008	600.00	ER	SUNCMKEC	Clark County 345kV	Clark County 345kV	12/1/2015	12/1/2015
GEN-2011-010	100.80	ER	OKGE	Minco 345kV	Minco 345kV	12/1/2012	TBD
GEN-2011-011	50.00	ER	KACP	Iatan 345kV	Iatan 345kV	12/31/2010	TBD
GEN-2011-014	201.00	ER	OKGE	Tap Hitchland - Woodward Ckt 1 (Beaver County) 345kV	Tap Hitchland - Woodward Dbl Ckt (Beaver County) 345kV	12/31/2013	12/31/2014
GEN-2011-016	200.10	ER	SUNCMKEC	Spearville 345kV	Spearville 345kV	12/1/2013	12/31/2014
GEN-2011-017	299.00	ER	SUNCMKEC	Tap Spearville - PostRock 345kV	Tap Spearville - PostRock (GEN-2011-017T) 345kV	12/1/2013	12/31/2014
GEN-2011-018	73.60	ER/NR	NPPD	Steele City 115kV	Steele City 115kV	12/1/2013	
GEN-2011-019	299.00	ER/NR	OKGE	Woodward 345kV	Woodward 345kV	12/31/2012	12/31/2014
GEN-2011-020	299.00	ER/NR	OKGE	Woodward 345kV	Woodward 345kV	12/31/2012	12/31/2014
GEN-2011-022	299.00	ER/NR	SPS	Hitchland 345kV	Hitchland 345kV	12/31/2012	12/31/2014
GEN-2011-025	82.30	ER	SPS	Tap Floyd County - Crosby County 115kV	Tap Floyd County - Crosby County 115kV	6/30/2012	12/31/2014
GEN-2011-027	120.00	ER/NR	NPPD	Tap Twin Church - Hoskins 230kV (GEN-2010-51 Tap)	Tap Twin Church - Hoskins 230kV (GEN-2010-51 Tap)	12/31/2012	TBD
Total: 3,260.60							

*Requests that dependent upon Priority Projects or Balanced Portfolio may be delayed until 12/31/2014. Other requests in-service date to be determined after Facility Study.

B: Prior Queued Interconnection Requests

See next page.

B: Prior Queued Interconnection Requests

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
ASGI-2010-006	150.00	AECI	Tap Fairfax (AECI) - Shilder (AEPW) 138kV	AECI queue Affected Study
ASGI-2010-010	42.20	SPS	Lovington 115kV	Lea County Affected Study
ASGI-2010-020	30.00	SPS	Tap LE-Tatum - LE-Crossroads 69kV	Lea County Affected Study
ASGI-2010-021	15.00	SPS	Tap LE-Saunders Tap - LE-Anderson 69kV	Lea County Affected Study
ASGI-2011-001	28.80	SPS	Lovington 115kV	On-Line
GEN-2001-014	96.00	WFEC	Ft Supply 138kV	On-Line
GEN-2001-026	74.00	WFEC	Washita 138kV	On-Line
GEN-2001-033	180.00	SPS	San Juan Tap 230kV	On-Line at 120MW
GEN-2001-036	80.00	SPS	Norton 115kV	On-Line
GEN-2001-037	100.00	OKGE	FPL Moreland Tap 138kV	On-Line
GEN-2001-039A	105.00	SUNCMKEC	Tap Greensburg - Ft Dodge (Shooting Star Tap) 115kV	On-Line
GEN-2001-039M	100.00	SUNCMKEC	Central Plains Tap 115kV	On-Line
GEN-2002-004	200.00	WERE	Latham 345kV	On-Line at 150MW
GEN-2002-005	120.00	WFEC	Red Hills Tap 138kV	On-Line
GEN-2002-008	240.00	SPS	Hitchland 345kV	On-Line at 120MW
GEN-2002-009	80.00	SPS	Hansford 115kV	On-Line
GEN-2002-022	240.00	SPS	Bushland 230kV	On-Line
GEN-2002-023N	0.80	NPPD	Harmony 115kV	On-Line
GEN-2002-025A	150.00	SUNCMKEC	Spearville 230kV	On-Line
GEN-2003-004	100.00	WFEC	Washita 138kV	On-Line
GEN-2003-005	100.00	WFEC	Anadarko - Paradise (Blue Canyon) 138kV	On-Line
GEN-2003-006A	200.00	SUNCMKEC	Elm Creek 230kV	On-Line
GEN-2003-019	250.00	MIDW	Smoky Hills Tap 230kV	On-Line
GEN-2003-020	160.00	SPS	Martin 115kV	On-Line
GEN-2003-021N	75.00	NPPD	Ainsworth Wind Tap 115kV	On-Line
GEN-2003-022	120.00	AEPW	Washita 138kV	On-Line
GEN-2004-014	154.50	SUNCMKEC	Spearville 230kV	On-Line at 100MW
GEN-2004-020	27.00	AEPW	Washita 34.5kV	On-Line
GEN-2004-023	20.60	WFEC	Washita 138kV	On-Line
GEN-2004-023N	75.00	NPPD	Columbus Co 115kV	On-Line
GEN-2005-003	30.60	WFEC	Washita 138kV	On-Line
GEN-2005-008	120.00	OKGE	Woodward 138kV	On-Line
GEN-2005-012	250.00	SUNCMKEC	Ironwood 345kV	On-Line at 160MW
GEN-2005-013	201.00	WERE	Tap Latham - Neosho (Caney River) 345kV	On-Line
GEN-2006-002	101.00	AEPW	Sweetwater 230kV	On-Line
GEN-2006-006	205.50	SUNCMKEC	Spearville 345kV	On Suspension
GEN-2006-018	170.00	SPS	TUCO Interchange 230kV	On-Line
GEN-2006-020N	42.00	NPPD	Bloomfield 115kV	On-Line
GEN-2006-020S	18.90	SPS	DWS Frisco 115kV	On-Line
GEN-2006-021	101.00	SUNCMKEC	Flat Ridge Tap 138kV	On-Line
GEN-2006-024S	19.80	WFEC	Buffalo Bear Tap 69kV	On-Line
GEN-2006-026	604.00	SPS	Hobbs 230kV & Hobbs 115kV	On-Line
GEN-2006-031	75.00	MIDW	Knoll 115kV	On-Line
GEN-2006-035	225.00	AEPW	Sweetwater 230kV	On-Line at 132MW
GEN-2006-037N1	75.00	NPPD	Broken Bow 115kV	On Schedule for 2014
GEN-2006-038N005	80.00	NPPD	Broken Bow 115kV	On-Line
GEN-2006-038N019	80.00	NPPD	Petersburg North 115kV	On-Line

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2006-040	108.00	SUNCMKEC	Mingo 115kV	On Suspension
GEN-2006-043	99.00	AEPW	Sweetwater 230kV	On-Line
GEN-2006-044	370.00	SPS	Hitchland 345kV	On-Line at 120MW
GEN-2006-044N	40.50	NPPD	North Petersburg 115kV	On-Line
GEN-2006-046	131.00	OKGE	Dewey 138kV	On-Line
GEN-2006-047	240.00	SPS	Tap Bushland - Deaf Smith (Buffalo) 230kV	On Suspension
GEN-2007-011	135.00	SUNCMKEC	Syracuse 115kV	On Suspension
GEN-2007-011N08	81.00	NPPD	Bloomfield 115kV	On-Line
GEN-2007-021	201.00	OKGE	Tatonga 345kV	On Schedule for 2014
GEN-2007-025	300.00	WERE	Viola 345kV	On-Line
GEN-2007-032	150.00	WFEC	Tap Clinton Junction - Clinton 138kV	On Suspension
GEN-2007-038	200.00	SUNCMKEC	Spearville 345kV	On Schedule for 2015
GEN-2007-040	200.00	SUNCMKEC	Buckner 345kV	On-Line at 132MW
GEN-2007-043	200.00	OKGE	Minco 345kV	On-Line
GEN-2007-044	300.00	OKGE	Tatonga 345kV	On Schedule for 2014
GEN-2007-046	199.50	SPS	Hitchland 115kV	On Schedule for 2015
GEN-2007-050	170.00	OKGE	Woodward EHV 138kV	On-Line at 150MW
GEN-2007-052	150.00	WFEC	Anadarko 138kV	On-Line
GEN-2007-062	765.00	OKGE	Woodward EHV 345kV	On Schedule for 2014
GEN-2008-003	101.00	OKGE	Woodward EHV 138kV	On-Line
GEN-2008-013	300.00	OKGE	Tap Wichita - Woodring (Hunter) 345kV	On-Line at 235MW
GEN-2008-017	300.00	SUNCMKEC	Setab 345kV	On Schedule for 2015
GEN-2008-018	250.00	SPS	Finney 345kV	On-Line
GEN-2008-021	42.00	WERE	Wolf Creek 345kV	On-Line
GEN-2008-022	300.00	SPS	Tap Eddy Co - Tolk (Crossroads) 345kV	On Schedule for 2015
GEN-2008-023	150.00	AEPW	Hobart Junction 138kV	On-Line
GEN-2008-037	101.00	WFEC	Tap Washita - Blue Canyon Wind 138kV	On-Line
GEN-2008-044	197.80	OKGE	Tatonga 345kV	On-Line
GEN-2008-047	300.00	OKGE	Tap Hitchland - Woodward Dbl Ckt (Beaver County) 345kV	On Schedule for 2014
GEN-2008-051	322.00	SPS	Potter County 345kV	On-Line at 161MW
GEN-2008-079	99.20	SUNCMKEC	Tap Cudahy - Ft Dodge 115kV	On-Line
GEN-2008-086N02	200.00	NPPD	Tap Ft Randle - Columbus (Madison County) 230kV	On Schedule for 2014
GEN-2008-088	50.60	SPS	Vega 69kV	On Suspension
GEN-2008-092	201.00	MIDW	Post Rock 230kV	On Schedule for 2014
GEN-2008-098	100.80	WERE	Tap Lacygne - Wolf Creek (Anderson County) 345kV	On Schedule for 2015
GEN-2008-1190	60.00	OPPD	S1399 161kV	On-Line
GEN-2008-123N	89.70	NPPD	Tap Guide Rock - Pauline (Rosemont) 115kV	On Schedule for 2014
GEN-2008-124	200.10	SUNCMKEC	Ironwood 345kV	On Schedule for 2016
GEN-2008-129	80.00	MIPU	Pleasant Hill 161kV	On-Line
GEN-2009-008	199.50	MIDW	South Hays 230kV	On Suspension
GEN-2009-020	48.60	MIDW	Tap Nekoma - Bazine (Walnut Creek) 69kV	On Schedule for 2015
GEN-2009-025	60.00	OKGE	Nardins 69kV	On-Line
GEN-2009-040	73.80	WERE	Marshall 115kV	On Schedule for 2015
GEN-2010-001	300.00	OKGE	Tap Hitchland - Woodward Dbl Ckt (Beaver County) 345kV	On Schedule for 2015
GEN-2010-003	100.80	WERE	Tap Lacygne - Wolf Creek (Anderson County) 345kV	On Schedule for 2015
GEN-2010-005	300.00	WERE	Viola 345kV	On-Line at 170MW
GEN-2010-006	205.00	SPS	Jones 230kV	On-Line
GEN-2010-009	165.60	SUNCMKEC	Buckner 345kV	On-Line

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2010-011	29.70	OKGE	Tatonga 345kV	On Line
GEN-2010-014	358.80	SPS	Hitchland 345kV	On Schedule for 2016
GEN-2010-015	200.10	SUNCMKEC	Spearville 345kV	On Schedule for 2015
GEN-2010-036	4.60	WERE	6th Street 115kV	On-Line
GEN-2010-040	300.00	OKGE	Cimarron 345kV	On-Line
GEN-2010-041	10.50	OPPD	S 1399 161kV	IA Pending
GEN-2010-045	197.80	SUNCMKEC	Buckner 345kV	On Schedule for 2017
GEN-2010-046	56.00	SPS	TUCO Interchange 230kV	On Schedule for 2016
GEN-2010-048	70.00	MIDW	Tap Beach Station - Redline 115kV	IA Pending
GEN-2010-051	200.00	NPPD	Tap Twin Church - Hoskins 230kV	On Schedule for 2014
Gray County Wind (Montezuma)	110.00	SUNCMKEC	Gray County Tap 115kV	On-Line
Llano Estacado (White Deer)	80.00	SPS	Llano Wind 115kV	On-Line
NPPD Distributed (Broken Bow)	8.30	NPPD	Broken Bow 115kV	On-Line
NPPD Distributed (Burt County Wind)	12.00	NPPD	Tekamah & Oakland 115kV	On-Line
NPPD Distributed (Burwell)	3.00	NPPD	Ord 115kV	On-Line
NPPD Distributed (Columbus Hydro)	45.00	NPPD	Columbus 115kV	On-Line
NPPD Distributed (Ord)	11.90	NPPD	Ord 115kV	On-Line
NPPD Distributed (Stuart)	2.10	NPPD	Ainsworth 115kV	On-Line
SPS Distributed (Dumas 19th St)	20.00	SPS	Dumas 19th Street 115kV	On-Line
SPS Distributed (Etter)	20.00	SPS	Etter 115kV	On-Line
SPS Distributed (Hopi)	10.00	SPS	Hopi 115kV	On-Line
SPS Distributed (Jal)	10.00	SPS	S Jal 115kV	On-Line
SPS Distributed (Lea Road)	10.00	SPS	Lea Road 115kV	On-Line
SPS Distributed (Monument)	10.00	SPS	Monument 115kV	On-Line
SPS Distributed (Moore E)	25.00	SPS	Moore East 115kV	On-Line
SPS Distributed (Ocotillo)	10.00	SPS	S_Jal 115kV	On-Line
SPS Distributed (Sherman)	20.00	SPS	Sherman 115kV	On-Line
SPS Distributed (Spearman)	10.00	SPS	Spearman 69kV	On-Line
SPS Distributed (TC-Texas County)	20.00	SPS	Texas County 115kV	On-Line
Total:		16,516.0		

C: Study Groupings

See next page

C. Study Groups

GROUP 1: WOODWARD AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-014	96.00	WFEC	Ft Supply 138kV
GEN-2001-037	100.00	OKGE	FPL Moreland Tap 138kV
GEN-2005-008	120.00	OKGE	Woodward 138kV
GEN-2006-024S	19.80	WFEC	Buffalo Bear Tap 69kV
GEN-2006-046	131.00	OKGE	Dewey 138kV
GEN-2007-021	201.00	OKGE	Tatonga 345kV
GEN-2007-043	200.00	OKGE	Minco 345kV
GEN-2007-044	300.00	OKGE	Tatonga 345kV
GEN-2007-050	170.00	OKGE	Woodward EHV 138kV
GEN-2007-062	765.00	OKGE	Woodward EHV 345kV
GEN-2008-003	101.00	OKGE	Woodward EHV 138kV
GEN-2008-044	197.80	OKGE	Tatonga 345kV
GEN-2010-011	29.70	OKGE	Tatonga 345kV
GEN-2010-040	300.00	OKGE	Cimarron 345kV
PRIOR QUEUED SUBTOTAL	2,731.30		
GEN-2011-007	250.10	OKGE	Tap Cimarron - Woodring (Mathewson) 345kV
GEN-2011-010	100.80	OKGE	Minco 345kV
GEN-2011-019	299.00	OKGE	Woodward 345kV
GEN-2011-020	299.00	OKGE	Woodward 345kV
CURRENT CLUSTER SUBTOTAL	948.90		
AREA TOTAL	3,680.20		

GROUP 2: HITCHLAND AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2002-008	240.00	SPS	Hitchland 345kV
GEN-2002-009	80.00	SPS	Hansford 115kV
GEN-2003-020	160.00	SPS	Martin 115kV
GEN-2006-020S	18.90	SPS	DWS Frisco 115kV
GEN-2006-044	370.00	SPS	Hitchland 345kV
GEN-2007-046	199.50	SPS	Hitchland 115kV
GEN-2008-047	300.00	OKGE	Tap Hitchland - Woodward Dbl Ckt (Beaver County) 345kV
GEN-2010-001	300.00	OKGE	Tap Hitchland - Woodward Dbl Ckt (Beaver County) 345kV
GEN-2010-014	358.80	SPS	Hitchland 345kV
SPS Distributed (Dumas 19th St)	20.00	SPS	Dumas 19th Street 115kV
SPS Distributed (Etter)	20.00	SPS	Etter 115kV
SPS Distributed (Moore E)	25.00	SPS	Moore East 115kV
SPS Distributed (Sherman)	20.00	SPS	Sherman 115kV
SPS Distributed (Spearman)	10.00	SPS	Spearman 69kV
SPS Distributed (TC-Texas County)	20.00	SPS	Texas County 115kV
PRIOR QUEUED SUBTOTAL	2,142.20		
ASGI-2011-002	20.00	SPS	Herring 115kV
GEN-2011-014	201.00	OKGE	Tap Hitchland - Woodward Dbl Ckt (Beaver County) 345kV
GEN-2011-022	299.00	SPS	Hitchland 345kV
CURRENT CLUSTER SUBTOTAL	520.00		
AREA TOTAL	2,662.20		

GROUP 3: SPEARVILLE AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-039A	105.00	SUNCMKEC	Tap Greensburg - Ft Dodge (Shooting Star Tap) 115kV
GEN-2002-025A	150.00	SUNCMKEC	Spearville 230kV
GEN-2004-014	154.50	SUNCMKEC	Spearville 230kV
GEN-2005-012	250.00	SUNCMKEC	Ironwood 345kV
GEN-2006-006	205.50	SUNCMKEC	Spearville 345kV
GEN-2006-021	101.00	SUNCMKEC	Flat Ridge Tap 138kV
GEN-2007-038	200.00	SUNCMKEC	Spearville 345kV
GEN-2007-040	200.00	SUNCMKEC	Buckner 345kV
GEN-2008-018	250.00	SPS	Finney 345kV
GEN-2008-079	99.20	SUNCMKEC	Tap Cudahy - Ft Dodge 115kV
GEN-2008-124	200.10	SUNCMKEC	Ironwood 345kV
GEN-2010-009	165.60	SUNCMKEC	Buckner 345kV
GEN-2010-015	200.10	SUNCMKEC	Spearville 345kV
GEN-2010-045	197.80	SUNCMKEC	Buckner 345kV
Gray County Wind (Montezuma)	110.00	SUNCMKEC	Gray County Tap 115kV
PRIOR QUEUED SUBTOTAL	2,588.80		
GEN-2011-008	600.00	SUNCMKEC	Clark County 345kV
GEN-2011-016	200.10	SUNCMKEC	Spearville 345kV
GEN-2011-017	299.00	SUNCMKEC	Tap Spearville - PostRock (GEN-2011-017T) 345kV
CURRENT CLUSTER SUBTOTAL	1,099.10		
AREA TOTAL	3,687.90		

GROUP 4/11: NW KANSAS AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-039M	100.00	SUNCMKEC	Central Plains Tap 115kV
GEN-2003-006A	200.00	SUNCMKEC	Elm Creek 230kV
GEN-2003-019	250.00	MIDW	Smoky Hills Tap 230kV
GEN-2006-031	75.00	MIDW	Knoll 115kV
GEN-2006-040	108.00	SUNCMKEC	Mingo 115kV
GEN-2007-011	135.00	SUNCMKEC	Syracuse 115kV
GEN-2008-017	300.00	SUNCMKEC	Setab 345kV
GEN-2008-092	201.00	MIDW	Post Rock 230kV
GEN-2009-008	199.50	MIDW	South Hays 230kV
GEN-2009-020	48.60	MIDW	Tap Nekoma - Bazine (Walnut Creek) 69kV
GEN-2010-048	70.00	MIDW	Tap Beach Station - Redline 115kV
PRIOR QUEUED SUBTOTAL	1,687.10		
GEN-2010-057	201.00	MIDW	Rice County 230kV
CURRENT CLUSTER SUBTOTAL	201.00		
AREA TOTAL	1,888.10		

GROUP 5: AMARILLO AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2002-022	240.00	SPS	Bushland 230kV
GEN-2006-047	240.00	SPS	Tap Bushland - Deaf Smith (Buffalo) 230kV
GEN-2008-051	322.00	SPS	Potter County 345kV
GEN-2008-088	50.60	SPS	Vega 69kV
Llano Estacado (White Deer)	80.00	SPS	Llano Wind 115kV
PRIOR QUEUED SUBTOTAL	932.60		
AREA TOTAL	932.60		

GROUP 6: S-TX PANHANDLE/W-TX AREA			
Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2010-010	42.20	SPS	Lovington 115kV
ASGI-2010-020	30.00	SPS	Tap LE-Tatum - LE-Crossroads 69kV
ASGI-2010-021	15.00	SPS	Tap LE-Saunders Tap - LE-Anderson 69kV
ASGI-2011-001	28.80	SPS	Lovington 115kV
GEN-2001-033	180.00	SPS	San Juan Tap 230kV
GEN-2001-036	80.00	SPS	Norton 115kV
GEN-2006-018	170.00	SPS	TUCO Interchange 230kV
GEN-2006-026	604.00	SPS	Hobbs 230kV & Hobbs 115kV
GEN-2008-022	300.00	SPS	Tap Eddy Co - Tolk (Crossroads) 345kV
GEN-2010-006	205.00	SPS	Jones 230kV
GEN-2010-046	56.00	SPS	TUCO Interchange 230kV
SPS Distributed (Hopi)	10.00	SPS	Hopi 115kV
SPS Distributed (Jal)	10.00	SPS	S Jal 115kV
SPS Distributed (Lea Road)	10.00	SPS	Lea Road 115kV
SPS Distributed (Monument)	10.00	SPS	Monument 115kV
SPS Distributed (Ocotillo)	10.00	SPS	S_Jal 115kV
PRIOR QUEUED SUBTOTAL	1,761.00		
ASGI-2011-003	10.00	SPS	Hendricks 115kV
GEN-2011-025	82.30	SPS	Tap Floyd County - Crosby County 115kV
CURRENT CLUSTER SUBTOTAL	92.30		
AREA TOTAL	1,853.30		

GROUP 7: SW-OKLAHOMA AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-026	74.00	WFEC	Washita 138kV
GEN-2002-005	120.00	WFEC	Red Hills Tap 138kV
GEN-2003-004	100.00	WFEC	Washita 138kV
GEN-2003-005	100.00	WFEC	Anadarko - Paradise (Blue Canyon) 138kV
GEN-2003-022	120.00	AEPW	Washita 138kV
GEN-2004-020	27.00	AEPW	Washita 34.5kV
GEN-2004-023	20.60	WFEC	Washita 138kV
GEN-2005-003	30.60	WFEC	Washita 138kV
GEN-2006-002	101.00	AEPW	Sweetwater 230kV
GEN-2006-035	225.00	AEPW	Sweetwater 230kV
GEN-2006-043	99.00	AEPW	Sweetwater 230kV
GEN-2007-032	150.00	WFEC	Tap Clinton Junction - Clinton 138kV
GEN-2007-052	150.00	WFEC	Anadarko 138kV
GEN-2008-023	150.00	AEPW	Hobart Junction 138kV
GEN-2008-037	101.00	WFEC	Tap Washita - Blue Canyon Wind 138kV
PRIOR QUEUED SUBTOTAL	1,568.20		
AREA TOTAL	1,568.20		

GROUP 8: N-OK/S-KS AREA

Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2010-006	150.00	AECI	Tap Fairfax (AECI) - Shilder (AEPW) 138kV
GEN-2002-004	200.00	WERE	Latham 345kV
GEN-2005-013	201.00	WERE	Tap Latham - Neosho (Caney River) 345kV
GEN-2007-025	300.00	WERE	Viola 345kV
GEN-2008-013	300.00	OKGE	Tap Wichita - Woodring (Hunter) 345kV
GEN-2008-021	42.00	WERE	Wolf Creek 345kV
GEN-2008-098	100.80	WERE	Tap Lacygne - Wolf Creek (Anderson County) 345kV
GEN-2009-025	60.00	OKGE	Nardins 69kV
GEN-2010-003	100.80	WERE	Tap Lacygne - Wolf Creek (Anderson County) 345kV
GEN-2010-005	300.00	WERE	Viola 345kV
PRIOR QUEUED SUBTOTAL	1,754.60		
GEN-2010-055	4.50	AEPW	Wekiwa 138kV
CURRENT CLUSTER SUBTOTAL	4.50		
AREA TOTAL	1,759.10		

GROUP 9/10: NEBRASKA AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2002-023N	0.80	NPPD	Harmony 115kV
GEN-2003-021N	75.00	NPPD	Ainsworth Wind Tap 115kV
GEN-2004-023N	75.00	NPPD	Columbus Co 115kV
GEN-2006-020N	42.00	NPPD	Bloomfield 115kV
GEN-2006-037N1	75.00	NPPD	Broken Bow 115kV
GEN-2006-038N005	80.00	NPPD	Broken Bow 115kV
GEN-2006-038N019	80.00	NPPD	Petersburg North 115kV
GEN-2006-044N	40.50	NPPD	North Petersburg 115kV
GEN-2007-011N08	81.00	NPPD	Bloomfield 115kV
GEN-2008-086N02	200.00	NPPD	Tap Ft Randle - Columbus (Madison County) 230kV
GEN-2008-119O	60.00	OPPD	S1399 161kV
GEN-2008-123N	89.70	NPPD	Tap Guide Rock - Pauline (Rosemont) 115kV
GEN-2009-040	73.80	WERE	Marshall 115kV
GEN-2010-041	10.50	OPPD	S 1399 161kV
GEN-2010-051	200.00	NPPD	Tap Twin Church - Hoskins 230kV
NPPD Distributed (Broken Bow)	8.30	NPPD	Broken Bow 115kV
NPPD Distributed (Burt County Wind)	12.00	NPPD	Tekamah & Oakland 115kV
NPPD Distributed (Burwell)	3.00	NPPD	Ord 115kV
NPPD Distributed (Columbus Hydro)	45.00	NPPD	Columbus 115kV
NPPD Distributed (Ord)	11.90	NPPD	Ord 115kV
NPPD Distributed (Stuart)	2.10	NPPD	Ainsworth 115kV
PRIOR QUEUED SUBTOTAL	1,265.60		
GEN-2011-018	73.60	NPPD	Steele City 115kV
GEN-2011-027	120.00	NPPD	Tap Twin Church - Hoskins 230kV (GEN-2010-51 Tap)
CURRENT CLUSTER SUBTOTAL	193.60		
AREA TOTAL	1,459.20		

GROUP 12: NW-AR AREA

Request	Capacity	Area	Proposed Point of Interconnection
AREA TOTAL	0.00		

GROUP 13: NW MISSOURI AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2008-129	80.00	MIPU	Pleasant Hill 161kV
GEN-2010-036	4.60	WERE	6th Street 115kV
PRIOR QUEUED SUBTOTAL	84.60		
GEN-2010-056	151.20	MIPU	Tap Saint Joseph - Cooper 345kV
GEN-2011-011	50.00	KACP	Iatan 345kV
CURRENT CLUSTER SUBTOTAL	201.20		
AREA TOTAL	285.80		

GROUP 14: S-OKLAHOMA AREA

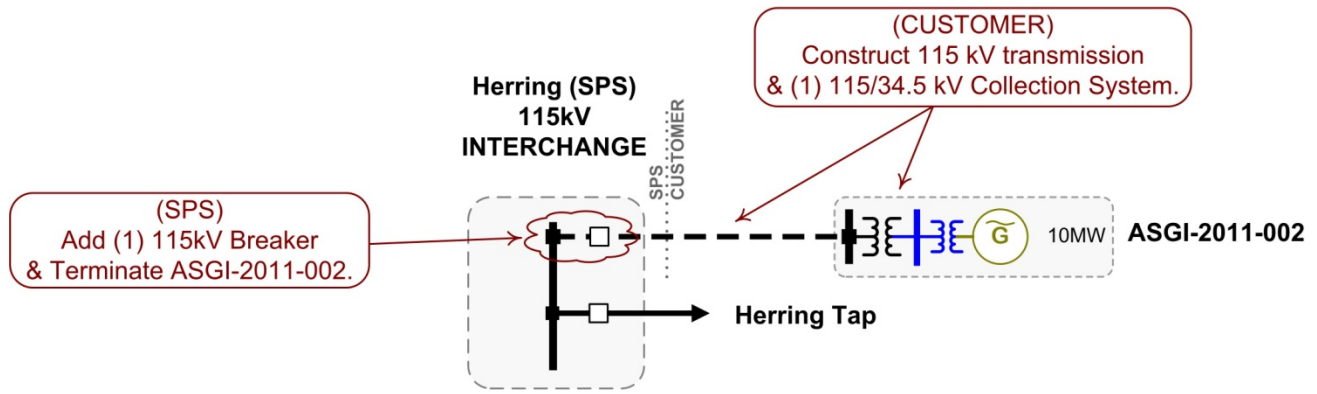
Request	Capacity	Area	Proposed Point of Interconnection
AREA TOTAL	0.00		

CLUSTER TOTAL (CURRENT STUDY)	3,260.6	MW
PQ TOTAL (PRIOR QUEUED)	16,516.0	MW
CLUSTER TOTAL (INCLUDING PRIOR QUEUED)	19,776.6	MW

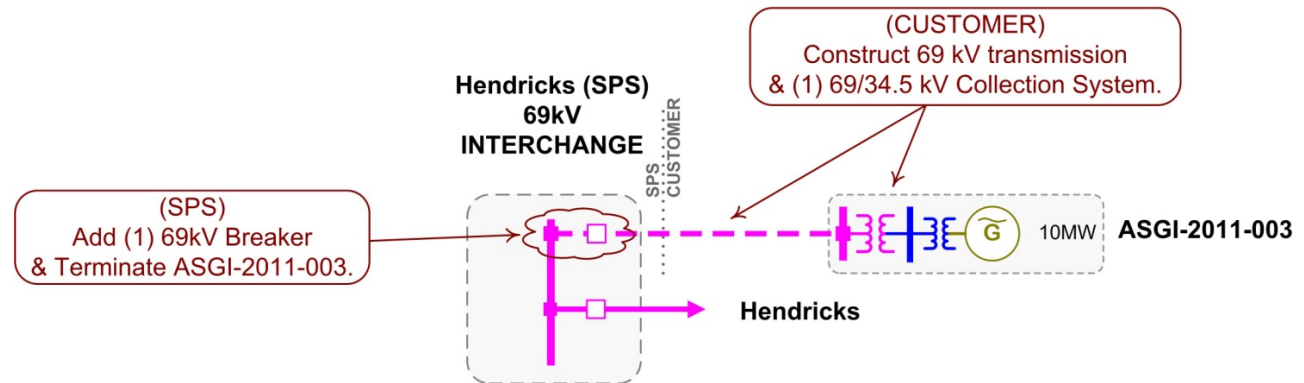
D: Proposed Point of Interconnection One line Diagrams

Refer to most recent Facility study for each request for an updated one-line.

ASGI-2011-002



ASGI-2011-003



GEN-2010-055

Refer to Facility Study for an updated one-line

GEN-2010-056

Refer to Facility Study for an updated one-line

GEN-2010-057

Refer to Facility Study for an updated one-line

GEN-2011-007

Refer to Facility Study for an updated one-line

GEN-2011-008

****Refer to Facility Study for an updated one-line****

GEN-2011-010

****Refer to Facility Study for an updated one-line****

GEN-2011-011

****Refer to Facility Study for an updated one-line****

GEN-2011-014

****Refer to Facility Study for an updated one-line****

GEN-2011-016

****Refer to Facility Study for an updated one-line****

GEN-2011-017

****Refer to Facility Study for an updated one-line****

GEN-2011-018

****Refer to Facility Study for an updated one-line****

GEN-2011-019

****Refer to Facility Study for an updated one-line****

GEN-2011-020

****Refer to Facility Study for an updated one-line****

GEN-2011-022

****Refer to Facility Study for an updated one-line****

GEN-2011-025

****Refer to Facility Study for an updated one-line****

GEN-2011-027

****Refer to Facility Study for an updated one-line****

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
ASGI-2011-002			
ASGI 2011-002 Interconnection Costs See Oonline Diagram.	Current Study	\$0.00	\$0.00
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Beaver County 345kV Expansion Beaver County Expansion: Tap & Tie in Hitchland - Woodward 345kV CKT 2	Previously Allocated		\$3,500,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Hitchland - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Hitchland - Woodward 345kV CKT 2 Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$215,877,433.00
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown).	Previously Allocated		\$8,883,760.00
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$5,776,280.00
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$207,782,000.00
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$6,585,986.00

* 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
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		\$14,900,907.00
Woodward XFMR 345/138/13.8kV CKT 2 Balanced Portfolio: Woodward 345/138kV Transformer CKT 2 & 50 MVAR Reactor (Total Project E&C Cost Shown).	Previously Allocated		\$249,247,072.00
	Current Study Total	\$0.00	

ASGI-2011-003

ASGI 2011-003 Interconnection Costs See Online Diagram.	Current Study	\$0.00	\$0.00
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Beaver County 345kV Expansion Beaver County Expansion: Tap & Tie in Hitchland - Woodward 345kV CKT 2	Previously Allocated		\$3,500,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Hitchland - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Hitchland - Woodward 345kV CKT 2 Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$215,877,433.00
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown).	Previously Allocated		\$8,883,760.00
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$5,776,280.00
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$207,782,000.00

* 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
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$6,585,986.00
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		\$14,900,907.00
Woodward XFMR 345/138/13.8kV CKT 2 Balanced Portfolio: Woodward 345/138kV Transformer CKT 2 & 50 MVAR Reactor (Total Project E&C Cost Shown).	Previously Allocated		\$249,247,072.00
	Current Study Total	\$0.00	

GEN-2010-055

GEN-2010-055 Interconnection Costs See Online Diagram.	Current Study	\$309,300.00	\$309,300.00
	Current Study Total	\$309,300.00	

GEN-2010-056

GEN-2010-056 Interconnection Costs See Online Diagram.	Current Study	\$8,360,000.00	\$8,360,000.00
Iatan - Nashua 345KV CKT 1 Balanced Portfolio: Iatan - Nashua 345kV CKT 1 (Total Project E&C Cost Shown).	Previously Allocated		\$60,569,180.00
Nashua 345/161/13.8KV Autotransformer CKT 1 Balanced Portfolio: Nashua/161/13.8 Autotransformer 345kV CKT 1 (Total Project E&C Cost Shown).	Previously Allocated		\$4,230,000.00
	Current Study Total	\$8,360,000.00	

GEN-2010-057

GEN-2010-057 Interconnection Costs See Online Diagram.	Current Study	\$859,521.00	\$859,521.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: PostRock - Axtell 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$136,000,000.00
Post Rock 345/230/13.8KV Autotransformer CKT 1 Balanced Portfolio: PostRock Autotransformer 345/230/13.8kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$3,994,000.00
Rice County - Circle 230kV Conversion Convert from 115kV to 230kV operation	In-Service		\$9,889,234.00
Rice County - Lyons 115kV Rebuild circuit @ 1000 Amps	In-Service		\$6,646,800.00
Rice County 230/115kV transformer Install 230/115kV transformer at Rice County substation	In-Service		\$7,835,455.00

* 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
Wheatland - Lyons 115kV Rerate circuit @ 1000 amps	In-Service		\$76,103.00
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Iatan - Nashua 345KV CKT 1 Balanced Portfolio: Iatan - Nashua 345kV CKT 1 (Total Project E&C Cost Shown).	Previously Allocated		\$60,569,180.00
Nashua 345/161/13.8KV Autotransformer CKT 1 Balanced Portfolio: Nashua/161/13.8 Autotransformer 345kV CKT 1 (Total Project E&C Cost Shown).	Previously Allocated		\$4,230,000.00
South Hays - Hays Plant 115kV CKT 1 NRIS only required upgrade: Per NTC 200210	Previously Allocated		\$4,734,006.00
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
	Current Study Total	\$859,521.00	

GEN-2011-007

GEN-2011-007 Interconnection Costs See Online Diagram.	Current Study	\$9,444,353.00	\$9,444,353.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$5,776,280.00
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$207,782,000.00
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$6,585,986.00
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		\$14,900,907.00
Woodward XFMR 345/138/13.8kV CKT 2 Balanced Portfolio: Woodward 345/138kV Transformer CKT 2 & 50 MVAR Reactor (Total Project E&C Cost Shown).	Previously Allocated		\$249,247,072.00

* 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****Current Study Total****\$9,444,353.00****GEN-2011-008**

Beaver County - Buckner 345kV Build approximately 90 miles of 345kV from Beaver County - Gray County @ 3000 amps	Current Study	\$83,097,308.04	\$170,209,050.00
GEN-2011-008 Interconnection Costs See Online Diagram.	Current Study	\$3,236,246.00	\$3,236,246.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: PostRock - Axtell 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$136,000,000.00
GEN-2011-017 Tap - Postrock 345kV CKT 1 Balanced Portfolio: Spearville - PostRock 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$84,006,000.00
Post Rock 345/230/13.8KV Autotransformer CKT 1 Balanced Portfolio: PostRock Autotransformer 345/230/13.8kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$3,994,000.00
Spearville - GEN-2011-017T 345kV CKT 1 Balanced Portfolio: Spearville - PostRock 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$84,006,000.00
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Beaver County 345kV Expansion Beaver County Expansion: Tap & Tie in Hitchland - Woodward 345kV CKT 2	Previously Allocated		\$3,500,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Buckner - Spearville 345kV CKT 1 Replace wave trap and relays at Spearville to get the line rating up.	Previously Allocated		\$771,000.00
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Hitchland - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Hitchland - Woodward 345kV CKT 2 Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$215,877,433.00
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown).	Previously Allocated		\$8,883,760.00

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

Monday, May 19, 2014

Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$5,776,280.00
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$207,782,000.00
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$6,585,986.00
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		\$14,900,907.00
Woodward XFMR 345/138/13.8kV CKT 2 Balanced Portfolio: Woodward 345/138kV Transformer CKT 2 & 50 MVAR Reactor (Total Project E&C Cost Shown).	Previously Allocated		\$249,247,072.00
	Current Study Total	\$86,333,554.04	

GEN-2011-010

GEN-2011-010 Interconnection Costs See Online Diagram.	Current Study	\$3,654,353.00	\$3,654,353.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$5,776,280.00
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$207,782,000.00
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$6,585,986.00
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		\$14,900,907.00
Woodward XFMR 345/138/13.8kV CKT 2 Balanced Portfolio: Woodward 345/138kV Transformer CKT 2 & 50 MVAR Reactor (Total Project E&C Cost Shown).	Previously Allocated		\$249,247,072.00

* 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
	Current Study Total	\$3,654,353.00	
GEN-2011-011			
GEN-2011-011 Interconnection Costs See Online Diagram.	Current Study	\$0.00	\$0.00
	Current Study Total	\$0.00	
GEN-2011-014			
GEN-2011-014 Interconnection Costs See Online Diagram.	Current Study	\$7,500,000.00	\$7,500,000.00
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Beaver County 345kV Expansion Beaver County Expansion: Tap & Tie in Hitchland - Woodward 345kV CKT 2	Previously Allocated		\$3,500,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Hitchland - Woodward 345kV CKT 2 Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$215,877,433.00
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown).	Previously Allocated		\$8,883,760.00
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$5,776,280.00
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$207,782,000.00
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$6,585,986.00

* 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
Woodward XFMR 345/138/13.8kV CKT 2 Balanced Portfolio: Woodward 345/138kV Transformer CKT 2 & 50 MVAR Reactor (Total Project E&C Cost Shown).	Previously Allocated		\$249,247,072.00
	Current Study Total	\$7,500,000.00	
GEN-2011-016			
Beaver County - Buckner 345kV Build approximately 90 miles of 345kV from Beaver County - Gray County @ 3000 amps	Current Study	\$36,217,321.35	\$170,209,050.00
GEN-2011-016 Interconnection Costs See Online Diagram.	Current Study	\$8,000,000.00	\$8,000,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: PostRock - Axtell 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$136,000,000.00
GEN-2011-017 Tap - Postrock 345kV CKT 1 Balanced Portfolio: Spearville - PostRock 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$84,006,000.00
Post Rock 345/230/13.8KV Autotransformer CKT 1 Balanced Portfolio: PostRock Autotransformer 345/230/13.8kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$3,994,000.00
Spearville - GEN-2011-017T 345kV CKT 1 Balanced Portfolio: Spearville - PostRock 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$84,006,000.00
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Beaver County 345kV Expansion Beaver County Expansion: Tap & Tie in Hitchland - Woodward 345kV CKT 2	Previously Allocated		\$3,500,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Buckner - Spearville 345kV CKT 1 Replace wave trap and relays at Spearville to get the line rating up.	Previously Allocated		\$771,000.00
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Hitchland - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Hitchland - Woodward 345kV CKT 2 Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$215,877,433.00

* 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
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown).	Previously Allocated		\$8,883,760.00
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$5,776,280.00
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$207,782,000.00
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$6,585,986.00
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		\$14,900,907.00
Woodward XFMR 345/138/13.8kV CKT 2 Balanced Portfolio: Woodward 345/138kV Transformer CKT 2 & 50 MVAR Reactor (Total Project E&C Cost Shown).	Previously Allocated		\$249,247,072.00
	Current Study Total		\$44,217,321.35

GEN-2011-017

Beaver County - Buckner 345kV Build approximately 90 miles of 345kV from Beaver County - Gray County @ 3000 amps	Current Study	\$50,894,420.61	\$170,209,050.00
GEN-2011-017 Interconnection Costs See Online Diagram.	Current Study	\$11,532,284.00	\$11,532,284.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: PostRock - Axtell 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$136,000,000.00
GEN-2011-017 Tap - Postrock 345kV CKT 1 Balanced Portfolio: Spearville - PostRock 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$84,006,000.00
Post Rock 345/230/13.8KV Autotransformer CKT 1 Balanced Portfolio: PostRock Autotransformer 345/230/13.8kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$3,994,000.00
Spearville - GEN-2011-017T 345kV CKT 1 Balanced Portfolio: Spearville - PostRock 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$84,006,000.00
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00

* 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
Beaver County 345kV Expansion Beaver County Expansion: Tap & Tie in Hitchland - Woodward 345kV CKT 2	Previously Allocated		\$3,500,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Buckner - Spearville 345kV CKT 1 Replace wave trap and relays at Spearville to get the line rating up.	Previously Allocated		\$771,000.00
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Hitchland - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Hitchland - Woodward 345kV CKT 2 Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$215,877,433.00
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown).	Previously Allocated		\$8,883,760.00
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$5,776,280.00
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$207,782,000.00
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$6,585,986.00
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		\$14,900,907.00
Woodward XFMR 345/138/13.8kV CKT 2 Balanced Portfolio: Woodward 345/138kV Transformer CKT 2 & 50 MVAR Reactor (Total Project E&C Cost Shown).	Previously Allocated		\$249,247,072.00
	Current Study Total		\$62,426,704.61

GEN-2011-018

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

Monday, May 19, 2014

Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
GEN-2011-018 Interconnection Costs See Online Diagram.	Current Study	\$900,000.00	\$900,000.00
Twin Church - Dixon County 230kV Increase conductor clearances to accommodate 320MVA facility rating	Previously Allocated		\$100,000.00
	Current Study Total	\$900,000.00	
GEN-2011-019			
FPL Switch - Mooreland 138kV CKT 1 NRIS only required upgrade: Rebuild approximately 0.2 miles of 138kV line	Current Study	\$410,000.00	\$820,000.00
FPL Switch - Woodward 138kV CKT 1 NRIS only required upgrade: Rebuild approximately 12 miles of 138kV line	Current Study	\$2,899,339.04	\$6,509,948.00
GEN-2011-019 Interconnection Costs See Online Diagram.	Current Study	\$3,654,353.00	\$3,654,353.00
Glass Mountain - Mooreland 138kV NRIS only required upgrade: Rebuild approximately 24 miles of 138kV line	Current Study	\$7,536,233.50	\$15,072,467.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345KV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345KV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Northwest 345/138k/13.8kVAutotransformer CKT 3 NRIS only required upgrade: Per 2009-AG2-AFS6	Previously Allocated		\$15,000,000.00
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$5,776,280.00
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345KV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345KV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$207,782,000.00
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$6,585,986.00
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		\$14,900,907.00
Woodward XFMR 345/138/13.8kV CKT 2 Balanced Portfolio: Woodward 345/138kV Transformer CKT 2 & 50 MVAR Reactor (Total Project E&C Cost Shown).	Previously Allocated		\$249,247,072.00

* 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
	Current Study Total	\$14,499,925.54	
GEN-2011-020			
FPL Switch - Mooreland 138kV CKT 1 NRIS only required upgrade: Rebuild approximately 0.2 miles of 138kV line	Current Study	\$410,000.00	\$820,000.00
FPL Switch - Woodward 138kV CKT 1 NRIS only required upgrade: Rebuild approximately 12 miles of 138kV line	Current Study	\$2,899,339.04	\$6,509,948.00
GEN-2011-020 Interconnection Costs See Online Diagram.	Current Study	\$3,654,353.00	\$3,654,353.00
Glass Mountain - Mooreland 138kV NRIS only required upgrade: Rebuild approximately 24 miles of 138kV line	Current Study	\$7,536,233.50	\$15,072,467.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Northwest 345/138k/13.8kVAutotransformer CKT 3 NRIS only required upgrade: Per 2009-AG2-AFS6	Previously Allocated		\$15,000,000.00
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$5,776,280.00
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$207,782,000.00
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$6,585,986.00
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		\$14,900,907.00
Woodward XFMR 345/138/13.8kV CKT 2 Balanced Portfolio: Woodward 345/138kV Transformer CKT 2 & 50 MVAR Reactor (Total Project E&C Cost Shown).	Previously Allocated		\$249,247,072.00
	Current Study Total	\$14,499,925.54	

GEN-2011-022

FPL Switch - Woodward 138kV CKT 1 NRIS only required upgrade: Rebuild approximately 12 miles of 138kV line	Current Study	\$711,269.91	\$6,509,948.00
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* 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
GEN-2011-022 Interconnection Costs See Online Diagram.	Current Study	\$3,281,952.00	\$3,281,952.00
TUCO - New Deal - Stanton 345/115kV Project NRIS only required upgrade: Build TUCO - New Deal 345kV, New Deal - Stanton 115kV and New Deal 345/115kV tranformer CKT 1. Total project E&C costs shown.	Current Study	\$37,490,796.00	\$37,490,796.00
Wolfforth Interchange 230/115/13.2kV Transformer CKT 1 NRIS only required upgrade: Replace existing Wolfforth Interchange Transformer	Current Study	\$6,000,000.00	\$6,000,000.00
Randall - S Georgia and Osage Station 115kV line reterminate CKT 1 NRIS only required upgrade: Per NTC 20130 for In Service 6/1/2016.	Not Active		\$1,680,000.00
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Beaver County 345kV Expansion Beaver County Expansion: Tap & Tie in Hitchland - Woodward 345kV CKT 2	Previously Allocated		\$3,500,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Canyon East - Randall 115kV line CKT 1 NRIS only required upgrade: Per SPP-2011-AG3-AFS-11 for In Service 6/1/2017. Rebuild 18 miles 115kV line.	Previously Allocated		\$13,609,088.00
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Hitchland - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Hitchland - Woodward 345kV CKT 2 Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$215,877,433.00
Hitchland 230/115/13.2kV Transformer CKT 2 NRIS only required upgrade: Build 230/115/13.2kV Transformer CKT 2 per SPP-2011-AG3-AFS-11.	Previously Allocated		\$6,000,000.00
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown).	Previously Allocated		\$8,883,760.00
Indiana Sub - Stanton Sub 115kV CKT 1 NRIS only required upgrade: Rebuild approximately 1.5 miles of 115kV line	Previously Allocated		\$1,200,000.00
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00

* 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
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$5,776,280.00
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$207,782,000.00
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$6,585,986.00
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		\$14,900,907.00
Woodward XFMR 345/138/13.8kV CKT 2 Balanced Portfolio: Woodward 345/138kV Transformer CKT 2 & 50 MVAR Reactor (Total Project E&C Cost Shown).	Previously Allocated		\$249,247,072.00
	Current Study Total	\$47,484,017.91	

GEN-2011-025

GEN-2011-025 Interconnection Costs See Online Diagram.	Current Study	\$4,249,629.00	\$4,249,629.00
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Beaver County 345kV Expansion Beaver County Expansion: Tap & Tie in Hitchland - Woodward 345kV CKT 2	Previously Allocated		\$3,500,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	Previously Allocated		\$249,247,072.00
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Hitchland - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$226,040,727.00
Hitchland - Woodward 345kV CKT 2 Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$215,877,433.00
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00

* 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
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$5,776,280.00
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	Previously Allocated		\$426,504,292.00
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$207,782,000.00
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	Previously Allocated		\$6,585,986.00
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		\$14,900,907.00
Woodward XFMR 345/138/13.8kV CKT 2 Balanced Portfolio: Woodward 345/138kV Transformer CKT 2 & 50 MVAR Reactor (Total Project E&C Cost Shown).	Previously Allocated		\$249,247,072.00
	Current Study Total	\$4,249,629.00	
GEN-2011-027			
GEN-2011-027 Interconnection Costs See Online Diagram.	Current Study	\$4,200,000.00	\$4,200,000.00
Hoskins - Dixon County - Twin Church 230kV Rerate per NPPD Facility Study	Current Study	\$500,000.00	\$500,000.00
Fort Randall - Columbus 230kV CKT 1 Conductor clearance increase	Previously Allocated		\$2,900,000.00
Twin Church - Dixon County 230kV Increase conductor clearances to accommodate 320MVA facility rating	Previously Allocated		\$100,000.00
	Current Study Total	\$4,700,000.00	
TOTAL CURRENT STUDY COSTS:		\$309,438,604.99	

* 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

ASGI 2011-002 Interconnection Costs \$0.00

See Online Diagram.

ASGI-2011-002	\$0.00
<hr/>	
Total Allocated Costs	\$0.00

ASGI 2011-003 Interconnection Costs \$0.00

See Online Diagram.

ASGI-2011-003	\$0.00
<hr/>	
Total Allocated Costs	\$0.00

Beaver County - Buckner 345kV \$170,209,050.00

Build approximately 90 miles of 345kV from Beaver County - Gray County @ 3000 amps

GEN-2011-008	\$83,097,308.04
GEN-2011-016	\$36,217,321.35
GEN-2011-017	\$50,894,420.61
<hr/>	
Total Allocated Costs	\$170,209,050.00

FPL Switch - Mooreland 138kV CKT 1 \$820,000.00

NRIS only required upgrade: Rebuild approximately 0.2 miles of 138kV line

GEN-2011-019	\$410,000.00
GEN-2011-020	\$410,000.00
<hr/>	
Total Allocated Costs	\$820,000.00

FPL Switch - Woodward 138kV CKT 1 \$6,509,948.00

NRIS only required upgrade: Rebuild approximately 12 miles of 138kV line

GEN-2011-019	\$2,899,339.04
GEN-2011-020	\$2,899,339.04
GEN-2011-022	\$711,269.91
<hr/>	
Total Allocated Costs	\$6,509,948.00

GEN-2010-055 Interconnection Costs \$309,300.00

See Online Diagram.

GEN-2010-055	\$309,300.00
<hr/>	
Total Allocated Costs	\$309,300.00

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

GEN-2010-056 Interconnection Costs		\$8,360,000.00
See Online Diagram.		
	GEN-2010-056	\$8,360,000.00
	Total Allocated Costs	\$8,360,000.00
GEN-2010-057 Interconnection Costs		\$859,521.00
See Online Diagram.		
	GEN-2010-057	\$859,521.00
	Total Allocated Costs	\$859,521.00
GEN-2011-007 Interconnection Costs		\$9,444,353.00
See Online Diagram.		
	GEN-2011-007	\$9,444,353.00
	Total Allocated Costs	\$9,444,353.00
GEN-2011-008 Interconnection Costs		\$3,236,246.00
See Online Diagram.		
	GEN-2011-008	\$3,236,246.00
	Total Allocated Costs	\$3,236,246.00
GEN-2011-010 Interconnection Costs		\$3,654,353.00
See Online Diagram.		
	GEN-2011-010	\$3,654,353.00
	Total Allocated Costs	\$3,654,353.00
GEN-2011-011 Interconnection Costs		\$0.00
See Online Diagram.		
	GEN-2011-011	\$0.00
	Total Allocated Costs	\$0.00
GEN-2011-014 Interconnection Costs		\$7,500,000.00
See Online Diagram.		
	GEN-2011-014	\$7,500,000.00
	Total Allocated Costs	\$7,500,000.00

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

GEN-2011-016 Interconnection Costs		\$8,000,000.00
See Online Diagram.		
	GEN-2011-016	\$8,000,000.00
	Total Allocated Costs	\$8,000,000.00
GEN-2011-017 Interconnection Costs		\$11,532,284.00
See Online Diagram.		
	GEN-2011-017	\$11,532,284.00
	Total Allocated Costs	\$11,532,284.00
GEN-2011-018 Interconnection Costs		\$900,000.00
See Online Diagram.		
	GEN-2011-018	\$900,000.00
	Total Allocated Costs	\$900,000.00
GEN-2011-019 Interconnection Costs		\$3,654,353.00
See Online Diagram.		
	GEN-2011-019	\$3,654,353.00
	Total Allocated Costs	\$3,654,353.00
GEN-2011-020 Interconnection Costs		\$3,654,353.00
See Online Diagram.		
	GEN-2011-020	\$3,654,353.00
	Total Allocated Costs	\$3,654,353.00
GEN-2011-022 Interconnection Costs		\$3,281,952.00
See Online Diagram.		
	GEN-2011-022	\$3,281,952.00
	Total Allocated Costs	\$3,281,952.00
GEN-2011-025 Interconnection Costs		\$4,249,629.00
See Online Diagram.		
	GEN-2011-025	\$4,249,629.00
	Total Allocated Costs	\$4,249,629.00

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

GEN-2011-027 Interconnection Costs **\$4,200,000.00**

See Online Diagram.

GEN-2011-027	\$4,200,000.00
Total Allocated Costs	\$4,200,000.00

Glass Mountain - Mooreland 138kV **\$15,072,467.00**

NRIS only required upgrade: Rebuild approximately 24 miles of 138kV line

GEN-2011-019	\$7,536,233.50
GEN-2011-020	\$7,536,233.50
Total Allocated Costs	\$15,072,467.00

Hoskins - Dixon County - Twin Church 230kV **\$500,000.00**

Rerate per NPPD Facility Study

GEN-2011-027	\$500,000.00
Total Allocated Costs	\$500,000.00

TUCO - New Deal - Stanton 345/115kV Project **\$37,490,796.00**

NRIS only required upgrade: Build TUCO - New Deal 345kV, New Deal - Stanton 115kV and New Deal 345/115kV transformer CKT 1. Total project E&C costs shown.

GEN-2011-022	\$37,490,796.00
Total Allocated Costs	\$37,490,796.00

Wolfforth Interchange 230/115/13.2kV Transformer CKT 1 **\$6,000,000.00**

NRIS only required upgrade: Replace existing Wolfforth Interchange Transformer

GEN-2011-022	\$6,000,000.00
Total Allocated Costs	\$6,000,000.00

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

G: Power Flow Analysis (Constraints For Mitigation)

See next page.

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB		TC%LOADING (% MVA)	CONTINGENCY
							(MVA)	TDF		
FNSL-Blown up	03ALL	0	14G	G11_008	-	Non-converged Contingency	1793	0.27921	-	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_008	-	Non-converged Contingency	1793	0.27921	-	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2
FNSL-Blown up	03ALL	0	14G	G11_008	-	Non-converged Contingency	717.1	0.18753	-	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_008	-	Non-converged Contingency	1793	0.15911	-	G11-17T 345.00 - POST ROCK 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_008	-	Non-converged Contingency	1793	0.15911	-	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_008	-	Non-converged Contingency	1052	0.11643	-	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_008	-	Non-converged Contingency	1052	0.11643	-	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_008	-	Non-converged Contingency	1792	0.10403	-	AXTELL - POST ROCK 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_016	-	Non-converged Contingency	717.1	0.23232	-	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_016	-	Non-converged Contingency	1793	0.2251	-	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_016	-	Non-converged Contingency	1793	0.2251	-	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2
FNSL-Blown up	03ALL	0	14G	G11_016	-	Non-converged Contingency	1793	0.19544	-	G11-17T 345.00 - POST ROCK 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_016	-	Non-converged Contingency	1793	0.19544	-	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_016	-	Non-converged Contingency	1052	0.15253	-	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_016	-	Non-converged Contingency	1052	0.15253	-	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_016	-	Non-converged Contingency	1792	0.12189	-	AXTELL - POST ROCK 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_017	-	Non-converged Contingency	1793	0.28669	-	G11-17T 345.00 - POST ROCK 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_017	-	Non-converged Contingency	717.1	0.20673	-	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_017	-	Non-converged Contingency	1793	0.20594	-	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_017	-	Non-converged Contingency	1793	0.20594	-	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2
FNSL-Blown up	03ALL	0	14G	G11_017	-	Non-converged Contingency	1792	0.15756	-	AXTELL - POST ROCK 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_017	-	Non-converged Contingency	1052	0.14687	-	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FNSL-Blown up	03ALL	0	14G	G11_017	-	Non-converged Contingency	1052	0.14687	-	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	01NR	0	14G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.1331	102.9517	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01NR	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.1331	151.9091	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01NR	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08989	107.5099	GEN520997 1-MORLND2
FDNS	01NR	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10138	106.4748	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01NR	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08989	101.2017	GEN520998 1-MORLND3
FDNS	01NR	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08989	99.9	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	01NR	0	14G	G11_019	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.04335	103.2143	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	00NR	0	14SP	G11_019	FROM->TO	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1	493	0.04889	103.6268	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	00NR	0	14SP	G11_019	FROM->TO	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1	493	0.04889	101.7186	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR	0	14G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.1331	102.9517	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01NR	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.1331	151.9091	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01NR	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08989	107.5099	GEN520997 1-MORLND2
FDNS	01NR	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10138	106.4748	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01NR	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08989	101.2017	GEN520998 1-MORLND3
FDNS	01NR	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08989	99.9	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	01NR	0	14G	G11_020	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.04335	103.2143	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	00NR	0	14SP	G11_020	FROM->TO	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1	493	0.04889	103.6268	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	00NR	0	14SP	G11_020	FROM->TO	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1	493	0.04889	101.7186	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	00NR	0	24SP	G11_022	TO->FROM	CANYON EAST SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.05264	100.5466	BUFFALO 230.00 - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02NR	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03082	154.4606	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02NR	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03082	141.9877	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02NR	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03622	102.6066	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02NR	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03651	101.2146	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02NR	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03651	101.0578	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02NR	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03622	100.8972	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.1192	112.0505	OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.1192	111.8327	HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.1192	109.5166	OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.1192	109.3532	HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.1573	105.2529	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.1573	104.0808	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.1573	102.9722	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.10491	102.7027	MOORE COUNTY INTERCHANGE (ENRCO 136402) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.1573	101.9249	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.10491	101.0057	MOORE COUNTY INTERCHANGE (ENRCO 136402) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.13219	100.7966	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	00NR	0	24SP	G11_022	FROM->TO	OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1	185	0.06877	112.4037	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	00NR	0	24SP	G11_022	FROM->TO	OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1	185	0.06877	109.5327	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00NR	0	24SP	G11_022	FROM->TO	TUCO INTERCHANGE (GE M102345) 230/115/13.2KV TRANSFORMER CKT 1	252	0.04041	114.0418	TUCO INTERCHANGE (ENRCO 136401) 230/115/13.2KV TRANSFORMER CKT 2
FDNS	00NR	0	24SP	G11_022	FROM->TO	TUCO INTERCHANGE (GE M102345) 230/115/13.2KV TRANSFORMER CKT 1	252	0.04041	110.9269	TUCO INTERCHANGE (ENRCO 136401) 230/115/13.2KV TRANSFORMER CKT 2
FDNS	00NR	0	24SP	G11_022	FROM->TO	TUCXFR345230	300	0.1766	100	BASE CASE
FDNS	00NR	0	24SP	G11_022	FROM->TO	WOLFFORTH INTERCHANGE (WH 7001668) 230/115/13.2KV TRANSFORMER CKT 1	168	0.03774	102.5731	CARLISLE INTERCHANGE - LP-DOUD_TP 3115.00 115KV CKT 1
FDNS	00NR	3	24SP	G11_022	TO->FROM	INDIANA SUB - STANTON SUB 115KV CKT 1	160	0.06618	107.2178	CARLISLE INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1
FDNS	00NR	3	24SP	G11_022	TO->FROM	INDIANA SUB - STANTON SUB 115KV CKT 1	160	0.04457	103.8399	ALLEN SUB - LUBBOCK SOUTH INTERCHANGE 115KV CKT 1
FDNS	00G11_027	0	24SP	G11_027	FROM->TO	G10-51T 230.00 - HOSKINS 230KV CKT 1	225	1	142.9133	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1
FDNS	09G11_027	0	14G	G11_027	FROM->TO	G10-51T 230.00 - HOSKINS 230KV CKT 1	225	1	142.78	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1
FDNS	00G11_027	0	19SP	G11_027	FROM->TO	G10-51T 230.00 - HOSKINS 230KV CKT 1	225	1	142.7604	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1
FDNS	00G11_027	0	14SP	G11_027	FROM->TO	G10-51T 230.00 - HOSKINS 230KV CKT 1	225	1	142.6936	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1
FDNS	00G11_027	0	19WP	G11_027	FROM->TO	G10-51T 230.00 - HOSKINS 230KV CKT 1	225	1	142.5262	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1
FDNS	00G11_027	0	14WP	G11_027	FROM->TO	G10-51T 230.00 - HOSKINS 230KV CKT 1	225	1	142.5053	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1
FDNS	09NR	0	14G	G11_027	FROM->TO	G10-51T 230.00 - HOSKINS 230KV CKT 1	225	1	124.5327	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1
FDNS	9	0	14G	G11_027	FROM->TO	G10-51T 230.00 - HOSKINS 230KV CKT 1	225	1	113.8294	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1
FDNS	00G11_027	0	24SP	G11_027	FROM->TO	G10-51T 230.00 - HOSKINS 230KV CKT 1	225	0.48018	102.7507	HOSKINS - RAUN 345KV CKT 1
FDNS	00G11_027	0	19SP	G11_027	FROM->TO	G10-51T 230.00 - HOSKINS 230KV CKT 1	225	0.48026	100.0861	HOSKINS - RAUN 345KV CKT 1
FDNS	00G11_027	0	24SP	G11_027	FROM->TO	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1	320	1	100.6319	G10-51T 230.00 - HOSKINS 230KV CKT 1
FDNS	00G11_027	0	19SP	G11_027	FROM->TO	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1	320	1	100.5772	G10-51T 230.00 - HOSKINS 230KV CKT 1
FDNS	00G11_027	0	14SP	G11_027	FROM->TO	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1	320	1	100.4544	G10-51T 230.00 - HOSKINS 230KV CKT 1
FDNS	00G11_027	0	19WP	G11_027	FROM->TO	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1	320	1	100.4015	G10-51T 230.00 - HOSKINS 230KV CKT 1
FDNS	00G11_027	0	14WP	G11_027	FROM->TO	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1	320	1	100.3979	G10-51T 230.00 - HOSKINS 230KV CKT 1
FDNS	09G11_027	0	14G	G11_027	FROM->TO	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1	320	1	100.2762	G10-51T 230.00 - HOSKINS 230KV CKT 1

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

See next page

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		3	0	14G	ASGI_11_002	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.03857	116.3855	DBL-WICH-THI
FDNS		3	0	14G	ASGI_11_002	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.0358	115.9877	DBL-WICH-THI
FDNS	02ALL		0	14G	ASGI_11_002	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.03554	102.6753	DBL-WICH-THI
FDNS		3	0	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0358	213.7155	DBL-WICH-THI
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03554	190.5343	DBL-WICH-THI
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0361	178.5386	DBL-WICH-THI
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03578	165.8779	DBL-WICH-THI
FDNS		2	0	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03578	165.7243	DBL-WICH-THI
FDNS		1	0	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03616	157.6022	DBL-WICH-THI
FDNS	04ALL		0	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03605	128.235	DBL-WICH-THI
FDNS	06ALL		0	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03595	121.5982	DBL-WICH-THI
FDNS		4	0	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03612	119.9346	DBL-WICH-THI
FDNS		6	0	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03598	117.0811	DBL-WICH-THI
FDNS	09ALL		0	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03618	100.7607	DBL-WICH-THI
FDNS		9	0	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03621	99.6	DBL-WICH-THI
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FLATRDG3 - THISTLE4 138.00 138KV CKT 1	286	0.04826	100.1933	DBL-WICH-THI
FDNS	01ALL		0	14G	ASGI_11_002	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.05445	118.9423	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_002	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.05802	112.5262	DBL-THIS-WWR
FDNS	02ALL		0	14G	ASGI_11_002	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.05316	102.466	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_002	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.05004	102.2764	DBL-WICH-THI
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05316	183.6191	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04901	176.049	DBL-WICH-THI
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05706	174.3253	DBL-THIS-WWR
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05316	172.22	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05445	170.3555	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05309	163.201	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05802	157.5329	DBL-THIS-WWR
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05329	152.535	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05329	152.4117	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05309	150.4894	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04927	148.3517	DBL-WICH-THI
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04243	148.208	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03787	147.9841	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0402	145.84	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0402	144.3366	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04142	144.1418	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05169	143.8222	SPP-SWPS-03
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05164	143.5601	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05164	143.5599	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04142	142.6931	SPP-SWPS-05
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04142	142.6063	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04919	142.4335	DBL-WICH-THI
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04919	142.2997	DBL-WICH-THI
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05164	142.2793	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		1	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05422	142.2136	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	141.5129	GEN520997 1-MORLND2
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05329	140.0623	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05329	139.9773	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05164	139.1049	SPP-SWPS-02A
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05004	138.6221	DBL-WICH-THI
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0573	136.3822	DBL-THIS-WWR
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05731	136.2059	DBL-THIS-WWR
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	135.2137	GEN520998 1-MORLND3
FDNS		3	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05335	135.2056	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04177	135.1133	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03787	134.985	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04243	134.9439	SPP-AEPW-32
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	134.4502	BASE CASE
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05164	133.4836	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05164	133.4786	SPP-SWPS-02
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05164	133.4757	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04243	132.1212	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04221	132.1145	SPP-SWPS-01
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03783	131.916	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03957	131.1244	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03955	131.1017	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03715	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03715	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	153	0.04015	129.0896	IODINE - WOODWARD EHV 138KV CKT 1
FDNS		1	0	14G	ASGI_11_002	TO->FROM	153	0.05801	127.868	DBL-THIS-WWR
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	127.6762	GEN520997 1-MORLND2
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04015	127.3742	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03119	124.8118	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ASGI_11_002	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03795	123.9013	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	153	0.03795	123.8168	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0371	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0371	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03463	123.2898	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03407	123.131	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		3	0	14G	ASGI_11_002	TO->FROM	153	0.05335	122.4568	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03456	122.2617	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03502	122.1212	MINGO - SETAB 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	122.0695	GEN514805 1-SOONER UNIT 1
FDNS	02ASGI_11_002	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03354	121.661	GEN520997 1-MORLND2
FDNS		2	0	14G	ASGI_11_002	TO->FROM	153	0.03354	121.591	GEN520997 1-MORLND2
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	121.4421	GEN520998 1-MORLND3
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03456	121.3287	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03463	121.2361	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	121.2182	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03516	120.8622	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	120.7092	GEN520922 1-SLEEPING BEAR
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03283	120.684	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03472	120.617	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03379	120.5246	DEWEY - TALOGA 138KV CKT 1
FDNS	02ASGI_11_002	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04029	120.479	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03352	120.4514	CIMARRON - NORTHWEST 345KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	153	0.04029	120.3888	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	120.3218	GEN514806 1-SOONER UNIT 2
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03456	119.9951	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03443	119.7852	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03392	119.7075	SPP-MKEC-08
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0342	119.5288	AXTELL - POST ROCK 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	119.3931	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03387	119.3339	FLATRDG3 - HARPER 138KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03371	119.2566	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04251	119.2094	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03435	118.9963	CONWAY SUB - NICHOLS STATION 115KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03387	118.9218	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03443	118.9188	FARGO JCT - FT SUPPLY 69KV CKT 1
FDNS	02ASGI_11_002	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04029	118.749	DEWEY - IODINE 138KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	153	0.04029	118.6589	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03783	118.6018	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	117.9624	BASE CASE
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03395	117.776	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		1	0	14G	ASGI_11_002	TO->FROM	153	0.04994	117.7097	DBL-WICH-THI
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	116.875	NC1_GEN-NEBRASKA CITY 1
FDNS	02ASGI_11_002	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05183	116.448	SPP-SWPS-03
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05177	116.4118	SPP-SWPS-03
FDNS		2	0	14G	ASGI_11_002	TO->FROM	153	0.05183	116.3194	SPP-SWPS-03
FDNS	02ASGI_11_002	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05177	116.1997	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05171	116.1909	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ASGI_11_002	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05177	116.19	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05171	116.1616	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	153	0.05177	116.0721	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	153	0.05177	116.0624	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ASGI_11_002	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03354	115.2551	GEN520998 1-MORLND3
FDNS	02ASGI_11_002	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05177	115.1927	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	153	0.03354	115.1849	GEN520998 1-MORLND3
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05171	115.1561	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	153	0.05177	115.0646	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03303	114.7701	LYDIA - VALLIANT 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03303	114.7672	SPP-AEPW-01

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03265	114.6757	DOVER - TWIN LAKES 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	114.6522	GEN515365 1-CENT 21 34.500
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03354	114.6119	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03265	114.5736	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03113	114.5656	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	114.4248	GEN515393 1-OGEWND2G
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03877	114.4161	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	114.3667	GEN524295 1-SPNSPUR_WND10.6900
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03314	114.3634	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	114.2644	GEN542957 1-IATAN UNIT #1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	114.0759	GEN562023 1-G11_020_3 0.6900
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	114.0759	GEN562026 1-G11_019_3 0.6900
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.9858	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.9346	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.9333	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.8879	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.8091	GEN523201 1-EXCELN4-WTG10.6000
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03268	113.8019	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.7048	GEN659111 2-LELAND OLDS UNIT2
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.6964	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.6432	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03395	113.6027	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.5946	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.5159	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.5159	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.2993	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.299	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.2776	GEN523122 1-NBLWND-WTG210.6900
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.2662	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03427	113.2099	GEN520997 1-MORLND2
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.2023	GEN523121 1-NBLWND-WTG110.6900
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04179	113.2015	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.1601	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.16	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.1298	GEN560584 1-G06-44-2 4.1600
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.1071	GEN523107 1-NOVUS_WND 14.1600
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.0653	GEN523123 1-NBLWND-WTG310.6900
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.0469	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03066	112.8899	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	112.8791	GEN645012 2-NEBRASKA CITY 2
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05177	112.7816	SPP-SWPS-02A
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	112.7727	GEN526334 1-JONES_4 116.500
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	112.682	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03066	112.6638	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL	2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05177	112.6578	SPP-SWPS-02A
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	112.6531	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	112.5882	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05171	112.573	SPP-SWPS-02A
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	112.5461	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0377	112.434	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	112.2396	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	112.2181	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03427	112.1942	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	112.1788	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	112.1612	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	111.767	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	111.7181	GEN560585 1-G06-44-3 4.1600
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03496	111.7171	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03184	111.2455	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	111.1482	GEN526332 1-JONES GEN #2 21 KV
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0351	110.9013	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03184	110.868	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	110.7293	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS		3	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03802	110.695	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03795	110.591	WOODWARD - WOODWARD 69KV CKT 1
FDNS		3	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03361	110.5487	GEN520997 1-MORLND2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03795	110.5068	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03184	110.016	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04188	109.8974	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04251	109.8656	SPP-AEPW-32
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04188	109.7937	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03354	109.6662	BASE CASE
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03035	109.6092	BYRON_138 138.00 - SANDY_CN_138138.00 138KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03354	109.5808	BASE CASE
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03253	109.3923	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	109.2651	GEN560286 1-G10-01-1WGT G.6900
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	109.2651	GEN560287 1-G10-01-2WGT G.6900
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	109.1151	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	108.988	GEN560371 1-G07-46 0.6900
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	108.8202	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	108.8198	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	108.7981	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	108.6938	GEN560256 1-G10-14-1 0.6900
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0377	108.6392	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03035	108.5061	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	108.481	GEN560257 1-G10-14-2 0.6900
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03427	108.4444	GEN520922 1-SLEEPING BEAR
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04152	108.3207	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03368	108.23	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04152	108.1735	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03451	108.0776	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	107.9542	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03035	107.9232	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03279	107.8931	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03469	107.8325	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03371	107.7264	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04229	107.628	SPP-SWPS-01
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04257	107.5308	SPP-AEPW-32
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03372	107.4894	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04041	107.4205	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04257	107.4107	SPP-AEPW-32
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04039	107.3911	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	107.2897	GEN531447 1-HOLCOMB GENERATOR
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05171	107.2887	SPP-SWPS-02
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05171	107.2835	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05171	107.2265	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04251	107.1671	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03427	107.1278	GEN520998 1-MORLND3
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05177	107.0626	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04152	107.034	SPP-SWPS-05
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05177	107.028	SPP-SWPS-02
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05177	107.0205	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04152	106.9802	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	106.9477	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05177	106.9384	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05177	106.9038	SPP-SWPS-02
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05177	106.8963	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	106.8781	GEN562042 1-G11_014_3 0.6900
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04152	106.87	SPP-SWPS-05
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04152	106.8115	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS		3	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04036	106.7211	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03056	106.6253	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	106.4488	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	106.4187	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	106.2906	GEN514806 1-SOONER UNIT 2
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03367	106.289	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03383	106.1515	FLATRDOG3 - HARPER 138KV CKT 1
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03725	106.1468	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03725	106.1468	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03725	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03725	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04117	106.0575	IODINE - WOODWARD EHV 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03368	105.9641	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03968	105.7226	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03967	105.7032	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03968	105.6216	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	105.6032	SPP-MKEC-08
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03967	105.6023	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03376	105.5608	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03369	105.4984	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03397	105.2393	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03018	105.2351	WOODWARD DISTRICT EHV (WVDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03383	105.0996	HARPER - MILAN TAP 138KV CKT 1
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04235	105.0651	SPP-SWPS-01
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04257	105.0261	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03439	105.0078	FARGO JCT - WOODWARD 69KV CKT 1
FDNS		3	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04036	105.0006	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03367	104.9628	MOORE - PAULINE 345KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04235	104.9462	SPP-SWPS-01
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03003	104.9413	SANDY CN 138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04257	104.9062	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03383	104.8119	SPP-MKEC-03B
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0335	104.7776	WRDOD400
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03383	104.7607	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03383	104.7465	SPP-MKEC-03A
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03383	104.6971	SPP-MKEC-05
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03349	104.6597	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03124	104.6132	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03124	104.5488	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04117	104.4125	DEWEY - IODINE 138KV CKT 1
FDNS		3	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03361	104.1841	GEN520998 1-MORLND3
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05445	104.0335	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	103.9699	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03459	103.9327	DEWEY - TALOGA 138KV CKT 1
FDNS	06ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05235	103.6571	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	103.6376	GEN562017 1-G11_022_3 0.6900
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03427	103.4526	BASE CASE
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03007	102.9651	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	102.8572	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03434	102.7939	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	102.786	GEN560121 1-G08-47 0.5750
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03007	102.7812	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	102.5425	NC1_GEN-NEBRASKA CITY 1
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03411	101.8949	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03877	101.8689	WOODWARD - WOODWARD 69KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03411	101.8316	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.038	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.038	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		1	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03414	101.3079	GEN520997 1-MORLND2
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03434	101.2211	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04248	101.0241	MOREWOOD SW - NINE MILE 138KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0435	100.993	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04248	100.6702	MOORELAND - NINE MILE 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.568	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.568	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.568	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.568	GEN560224 1-G07-62-4 0.6900
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.5067	GEN524295 1-SPNSPUR_WND10.6900
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.4515	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ASGI_11_002		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03354	100.4237	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.4135	GEN523462 1-BLACKHAWK GEN #2
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.4021	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0335	100.3852	IODINE - MOORELAND 138KV CKT 1
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03354	100.3493	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.3269	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.2757	GEN515365 1-CENT 21 34.500
FDNS	03ALL		0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03262	100.2693	DOVER - TWIN LAKES 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.2604	GEN539670 4-JUDSON LARGE GENERATOR	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.2548	GEN562017 1-G11_022_3 0.6900	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03262	100.1809	DOVER - DOVER SW 138KV CKT 1	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0331	100.1638	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.1086	GEN560121 1-G08-47 0.5750	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100.067	GEN542957 1-IATAN UNIT #1	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100	GEN531459 2-S2 GENERATOR	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100	GEN539762 1-SSWIND 1 34.500	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	100	GEN560267 1-G10-15-1 0.6900	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.917	EASTDC - WELSH 345KV CKT 1	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.9	GEN539785 1-ENSNW 1 0.5750	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.9	GEN560268 1-G10-15-2 0.6900	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03061	99.9	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.8	GEN515393 1-OGWWD2G	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.8	GEN527161 1-MUSTANG GEN #1	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.8	GEN527162 1-MUSTANG GEN #2	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.8	GEN539767 1-GRAY COUNTY WIND FARM	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.8	GEN645001 1-FORT CALHOUN 1	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03264	99.8	WOODWARD - WOODWARD EHV 138KV CKT 2	
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03354	99.7	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ASGI_11_002	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03354	99.7	GEN515787 1-OKLA WIND ENERGY CENTER	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.7	GEN562023 1-G11_020_3 0.6900	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.7	GEN562026 1-G11_019_3 0.6900	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03061	99.7	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.6	GEN560696 1-G11-008-4 0.6900	
FDNS		2	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0329	99.5	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ASGI_11_002	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0329	99.5	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.5	GEN526334 1-JONES 4 116.500	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.5	GEN542962 2-IATAN UNIT #2	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.5	GEN645011 1-NEBRASKA CITY 1	
FDNS	03ALL	0	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	99.5	GEN659111 2-LELAND OLDS UNIT2	
FDNS	00ASGI_11_002	0	14SP	ASGI_11_002	FROM->TO	GRAY COUNTY INTERCHANGE (WH RHP17221) 115/69/13.2KV TRANSFORMER CKT 1	84	0.03113	101.3464	SPP-SWPS-V29	
FDNS	00ASGI_11_002	0	14SP	ASGI_11_002	FROM->TO	GRAY COUNTY INTERCHANGE (WH RHP17221) 115/69/13.2KV TRANSFORMER CKT 1	84	0.03113	101.3237	KINGSMILL INTERCHANGE - LLANO ESTACADO WIND GEN 115KV CKT 1	
FDNS		0	0	14SP	ASGI_11_002	FROM->TO	GRAY COUNTY INTERCHANGE (WH RHP17221) 115/69/13.2KV TRANSFORMER CKT 1	84	0.03113	100.6456	SPP-SWPS-V29
FDNS		0	0	14SP	ASGI_11_002	FROM->TO	GRAY COUNTY INTERCHANGE (WH RHP17221) 115/69/13.2KV TRANSFORMER CKT 1	84	0.03113	100.6233	KINGSMILL INTERCHANGE - LLANO ESTACADO WIND GEN 115KV CKT 1
FDNS		3	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0358	223.9645	DBL-WICH-THI
FDNS	02ALL	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03554	200.8338	DBL-WICH-THI	
FDNS	01ALL	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0361	188.9328	DBL-WICH-THI	
FDNS	02ASGI_11_002	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03578	176.3337	DBL-WICH-THI	
FDNS		2	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03578	176.1806	DBL-WICH-THI
FDNS		1	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03616	168.0853	DBL-WICH-THI
FDNS	04ALL	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03605	138.7306	DBL-WICH-THI	
FDNS	06ALL	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03595	132.2025	DBL-WICH-THI	
FDNS		4	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03612	130.4421	DBL-WICH-THI
FDNS		6	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03598	127.685	DBL-WICH-THI
FDNS	09ALL	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03618	111.2997	DBL-WICH-THI	
FDNS		9	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03621	110.1027	DBL-WICH-THI
FDNS		13	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03627	106.7686	DBL-WICH-THI
FDNS	13ALL	0	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03629	106.1697	DBL-WICH-THI	
FDNS	02ALL	0	14G	ASGI_11_002	FROM->TO	KINGSMILL INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1	88	0.03905	108.9985	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
FDNS		3	0	14G	ASGI_11_002	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03642	113.5448	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS		3	0	14G	ASGI_11_002	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03865	100.7172	DBL-WICH-THI
FNSL-Blown up	02ALL	0	14G	ASGI_11_002	-	Non-converged Contingency	-	0.33513	-	DBL-BVR-WWRD	
FNSL-Blown up	03ALL	0	14G	ASGI_11_002	-	Non-converged Contingency	-	0.18759	-	DBL-WICH-THI	
FDNS	01ALL	0	14G	ASGI_11_002	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21626	102.794	DBL-THIS-WWR	
FDNS		3	0	14G	ASGI_11_002	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.033	109.4862	DBL-WICH-THI
FDNS	04ALL	0	14G	ASGI_11_002	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03344	106.648	DBL-WICH-THI	
FDNS		3	2	14G	ASGI_11_002	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.03035	117.9935	DBL-THIS-CLR
FDNS		3	2	14G	ASGI_11_002	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.04385	109.6434	DBL-WICH-THI
FDNS		3	2	14G	ASGI_11_002	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.03662	113.6224	DBL-WICH-THI
FDNS		3	2	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03662	209.5236	DBL-WICH-THI
FDNS	09ALL	2	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03618	100.7582	DBL-WICH-THI	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		9	2	14G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03621	99.6	DBL-WICH-THI
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04785	172.8268	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04785	160.6288	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04628	152.9735	DBL-WICH-THI
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04808	142.7618	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03412	140.3486	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03628	137.81	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03628	136.0836	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	135.3819	GEN520997 1-MORLND2
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04808	130.3082	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0339	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0339	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	129.0801	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03844	126.9997	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03162	126.9983	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03412	126.8514	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	126.4388	BASE CASE
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04759	124.8549	SPP-SWPS-03
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04754	124.7372	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04754	124.6975	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03119	124.4786	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04754	123.9346	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04754	121.5078	SPP-SWPS-02A
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03807	121.0796	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03119	119.9158	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03108	118.3679	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03844	117.9566	SPP-AEPW-32
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03198	117.8226	MINGO - SETAB 345KV CKT 1
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03429	117.744	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03162	117.6146	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03215	116.9412	MINGO - RED WILLOW 345KV CKT 1
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0303	116.7216	GEN520997 1-MORLND2
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04754	115.9103	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04754	115.8725	SPP-SWPS-02
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04754	115.867	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03822	115.5472	SPP-SWPS-01
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03132	115.5094	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03844	115.2876	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	115.1958	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	115.0003	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	114.3959	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03056	114.287	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03166	114.1293	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03057	114.045	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	113.8484	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03016	113.8214	CIMARRON - NORTHWEST 345KV CKT 1
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03646	113.8039	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	113.4433	GEN514806 1-SOONER UNIT 2
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03035	113.2797	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03045	113.1855	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03057	113.162	FATRDRG3 - HARPER 138KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03059	113.0242	SPP-MKEC-08
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	112.6675	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03102	112.5959	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03057	112.5058	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03048	112.4511	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03057	112.2052	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03057	112.2009	SPP-MKEC-03B
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03075	112.1649	BENTON - ROSE HILL 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03057	112.1641	SPP-MKEC-05
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03057	112.1598	SPP-MKEC-03A
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03045	112.0827	MOORE - PAULINE 345KV CKT 1
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03646	112.073	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03057	112.0386	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	111.9995	GEN520947 1-HUGO1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	111.988	GEN515225 1-MUSKOGEE 5G

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	111.9783	GEN515226 1-MUSKOGEE 6G
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0303	110.3004	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	109.9108	NC1 GEN-NEBRASKA CITY 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.9478	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.9478	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.9478	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.9478	GEN560224 1-G07-62-4 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.784	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03021	107.7785	IODINE - MOORELAND 138KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.6833	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.6824	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.6703	GEN560121 1-G08-47 0.5750
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.6304	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.6248	GEN515365 1-CENT 21 34.500
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03444	107.4899	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03445	107.4837	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.396	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.3959	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.2702	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.2461	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.2384	GEN539785 1-ENSNW 1 0.5750
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.2265	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.2051	GEN531459 2-S2 GENERATOR
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.1653	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03037	107.1636	MATHWSN7 345.00 - WOODRING 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.1339	GEN515393 1-OGAWN2G
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.128	GEN526334 1-JONES 4 116.500
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.0445	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.0445	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.0243	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.005	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03245	106.9355	SPP-SWPS-05
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.9089	GEN560696 1-G11-008-4 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.8913	GEN645001 1-FORT CALHOUN 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03245	106.8565	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.8361	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.8148	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.7561	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03037	106.713	CIMARRON - MATHWSN7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.6583	GEN542962 2-IATAN UNIT #2
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.6473	GEN659111 2-LELAND OLDS UNIT2
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.5948	GEN645011 1-NEBRASKA CITY 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.4527	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.4527	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.4106	GEN526331 1-JONES GEN #1 22 KV
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.2382	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.2378	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.2074	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.0987	GEN560695 1-G11-008-3 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.021	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.0123	GEN526332 1-JONES GEN #2 21 KV
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	106.0014	GEN542902 1-GPW_G1 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	105.8824	GEN560694 1-G11-008-2 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	105.8687	GEN645012 2-NEBRASKA CITY 2
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	105.8022	GEN560514 1-G04_014 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	105.5261	GEN640009 1-COOPER NUCLEAR STATION
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	105.3724	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	105.3523	GEN539807 1-G05-12 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	105.169	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	105.082	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	105.029	GEN560238 1-G10-09 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	104.6932	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	104.693	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	104.6785	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	104.6111	GEN560659 1-G07-38 0.6900
FDNS	03ALL		2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	104.5684	GEN562035 1-G11_016_3 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	104.5501	GEN560432 1-G08-124 0.6900	
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	104.533	GEN560693 1-G11-008-1 0.6900	
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03863	104.4333	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	104.4133	GEN560549 1-G06-06 0.6900	
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03408	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03408	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03429	104.1408	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	104.0766	GEN560329 1-G10-45 0.6900	
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	104.0657	GEN531503 1-CIMRRN 1 34.500	
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0303	103.4279	BASE CASE
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04778	102.9807	SPP-SWPS-03
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04773	102.9398	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04773	102.9342	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	102.7291	GEN523117 1-BUFF_DUNES210.6900	
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03349	102.4598	BEAVER CO 345.00 - BUCKNER7 345.00 345KV CKT 1	
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	102.4369	GEN562032 1-G11_017_3 0.6900	
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03133	102.1895	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04773	102.1802	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04558	101.9149	DBL-THIS-WWR	
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	101.8124	GEN659118 1-LARAMIE RIVER UNIT1	
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03439	101.7384	MOREWOOD SW - RED HILLS WIND 138KV CKT 1	
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	101.3654	GEN525561 1-TOLK GEN #1 24 KV	
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	101.2021	GEN525562 1-TOLK GEN #2 24 KV	
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03824	100.1259	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS		3	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04773	99.9	SPP-SWPS-02A
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	99.9	GEN531447 1-HOLCKM GENERATOR	
FDNS		3	2	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03662	219.9313	DBL-WICH-THI
FDNS	09ALL	2	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03618	111.2974	DBL-WICH-THI	
FDNS		9	2	14G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03621	110.1004	DBL-WICH-THI
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.04399	131.9195	G11-17T 345.00 - POST ROCK 345KV CKT 1	
FNSL	03ALL	2	14G	ASGI_11_002	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03456	114.9839	DBL-IRON-CLR	
FDNS		3	2	14G	ASGI_11_002	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03496	113.1846	DBL-THIS-CLR
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.04399	108.3648	G11-17T 345.00 - SPEARVILLE 345KV CKT 1	
FDNS		3	2	14G	ASGI_11_002	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.04444	104.0607	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	ASGI_11_002	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03234	101.3946	POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1	
FNSL-Blown up	03ALL	2	14G	ASGI_11_002	-	Non-converged Contingency	-	0.19072	-	DBL-WICH-THI	
FNSL-Blown up	03ALL	2	14G	ASGI_11_002	-	Non-converged Contingency	-	0.05859	-	DBL-THIS-CLR	
FDNS		3	2	14G	ASGI_11_002	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03744	103.695	DBL-WICH-THI
FDNS	00ASGI_11_003	0	24SP	ASGI_11_003	TO->FROM	ALLEN SUB - LUBBOCK SOUTH INTERCHANGE 115KV CKT 1	160	0.09013	101.0568	LUBBOCK SOUTH INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1	
FDNS		0	24SP	ASGI_11_003	TO->FROM	ALLEN SUB - LUBBOCK SOUTH INTERCHANGE 115KV CKT 1	160	0.09013	100.5757	LUBBOCK SOUTH INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1	
FDNS	00ASGI_11_003	0	24SP	ASGI_11_003	TO->FROM	ALLEN SUB - LUBBOCK SOUTH INTERCHANGE 115KV CKT 1	160	0.04159	99.5	CARLISLE INTERCHANGE (WH XHS70711) 230/115/13.2KV TRANSFORMER CKT 1	
FDNS	00ASGI_11_003	0	14SP	ASGI_11_003	TO->FROM	BAILEY COUNTY REC-EARTH INTERCHANGE - PLANT X STATION 115KV CKT 1	160	0.04587	100.3579	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1	
FDNS		0	14SP	ASGI_11_003	TO->FROM	BAILEY COUNTY REC-EARTH INTERCHANGE - PLANT X STATION 115KV CKT 1	160	0.04588	100.0758	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1	
FDNS		3	0	14G	ASGI_11_003	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.03019	115.9877	DBL-WICH-THI
FDNS		3	0	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03019	213.7155	DBL-WICH-THI
FDNS	01ALL	0	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03049	178.5386	DBL-WICH-THI	
FDNS		2	0	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03017	165.7243	DBL-WICH-THI
FDNS		1	0	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03055	157.6022	DBL-WICH-THI
FDNS	04ALL	0	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03044	128.235	DBL-WICH-THI	
FDNS	06ALL	0	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03034	121.5982	DBL-WICH-THI	
FDNS		4	0	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03051	119.9346	DBL-WICH-THI
FDNS	06ASGI_11_003	0	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03036	117.1386	DBL-WICH-THI	
FDNS		6	0	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03037	117.0811	DBL-WICH-THI
FDNS	09ALL	0	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03057	100.7607	DBL-WICH-THI	
FDNS		9	0	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0306	99.6	DBL-WICH-THI
FDNS	01ALL	0	14G	ASGI_11_003	TO->FROM	FLATRDG3 - THISTLE4 138.00 138KV CKT 1	286	0.04284	100.1933	DBL-WICH-THI	
FDNS	01ALL	0	14G	ASGI_11_003	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04769	118.9423	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	01ALL	0	14G	ASGI_11_003	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.05496	112.5262	DBL-THIS-WWR	
FDNS	02ALL	0	14G	ASGI_11_003	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.0464	102.466	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	01ALL	0	14G	ASGI_11_003	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04477	102.2764	DBL-WICH-THI	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0464	183.6191	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04374	176.049	DBL-WICH-THI	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.054	174.3253	DBL-THIS-WWR	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0464	172.22	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	01ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04769	170.3555	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	03ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04633	163.201	NORTHWEST - TATONGA7 345.00 345KV CKT 1	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	01ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05496	157.5329	DBL-THIS-WWR	
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04653	152.4117	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04633	150.4894	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS		3	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.044	148.3517	DBL-WICH-THI
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0509	148.208	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03443	147.9841	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0361	145.84	IODINE - WOODWARD EHV 138KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0361	144.3366	DEWEY - IODINE 138KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03585	144.1418	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04169	143.8222	SPP-SWPS-03	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04153	143.5601	ELK CITY 230KV - SWEETWATER 230KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04153	143.5599	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03585	142.6931	SPP-SWPS-05	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03585	142.6063	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1	
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04392	142.2997	DBL-WICH-THI
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04153	142.2793	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
FDNS		1	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04746	142.2136	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	141.5129	GEN520997 1-MORLND2	
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04653	139.9773	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04153	139.1049	SPP-SWPS-02A	
FDNS	01ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04477	138.6221	DBL-WICH-THI	
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05424	136.2059	DBL-THIS-WWR
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	135.2137	GEN520998 1-MORLND3	
FDNS		3	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04659	135.2056	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03635	135.1133	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03443	134.985	WOODWARD - WOODWARD 69KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0509	134.9439	SPP-AEPW-32	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	134.4502	BASE CASE	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04153	133.4836	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04153	133.4786	SPP-SWPS-02	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04153	133.4757	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0509	132.1212	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05021	132.1145	SPP-SWPS-01	
FDNS	03ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03439	131.916	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03661	131.1244	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0366	131.1017	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03367	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03367	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS	03ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03605	129.0896	IODINE - WOODWARD EHV 138KV CKT 1	
FDNS		1	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05495	127.868	DBL-THIS-WWR
FDNS	03ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	127.6762	GEN520997 1-MORLND2	
FDNS	03ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03605	127.3742	DEWEY - IODINE 138KV CKT 1	
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03452	123.8168	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03363	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	03ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03363	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03121	123.2898	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03005	123.1311	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1	
FDNS		3	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04659	122.4568	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03145	122.2617	G11-17T 345.00 - POST ROCK 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0317	122.1212	MINGO - SETAB 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	122.0695	GEN514805 1-SOONER UNIT 1	
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03062	121.5911	GEN520997 1-MORLND2
FDNS	03ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	121.4421	GEN520998 1-MORLND3	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03145	121.3287	G11-17T 345.00 - SPEARVILLE 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03121	121.2361	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	121.2182	GEN515787 1-OKLA WIND ENERGY CENTER	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03183	120.8622	MINGO - RED WILLOW 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	120.7092	GEN520922 1-SLEEPING BEAR	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03007	120.684	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03148	120.617	HOLCOMB - SETAB 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03131	120.5246	DEWEY - TALOGA 138KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03006	120.4514	CIMARRON - NORTHWEST 345KV CKT 1	
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03619	120.3888	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	120.3218	GEN514806 1-SOONER UNIT 2	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03144	119.9951	BENTON - WICHITA 345KV CKT 1	
FDNS	02ALL	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03143	119.7852	FARGO JCT - WOODWARD 69KV CKT 1	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03095	119.7075	SPP-MKEC-08
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03119	119.5288	AXTELL - POST ROCK 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03073	119.3931	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03088	119.3339	FLATRDG3 - HARPER 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03074	119.2566	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05098	119.2094	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03108	118.9963	CONWAY SUB - NICHOLS STATION 115KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03082	118.9218	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03143	118.9188	FARGO JCT - FT SUPPLY 69KV CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03619	118.6589	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03439	118.6018	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	117.9624	BASE CASE
FDNS		1	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04467	117.7097	DBL-WICH-THI
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	116.875	NC1_GEN-NEBRASKA CITY 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04177	116.4118	SPP-SWPS-03
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04183	116.3194	SPP-SWPS-03
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0416	116.1909	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0416	116.1616	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04167	116.0721	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04167	116.0624	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03062	115.1849	GEN520998 1-MORLND3
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0416	115.1561	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04167	115.0646	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03004	114.7701	LYDIA - VALLIANT 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03003	114.7672	SPP-AEPW-01
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	114.6522	GEN515365 1-CENT 21 34.500
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03067	114.6119	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	114.4248	GEN515393 1-OGEWND2G
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03533	114.4161	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	114.3667	GEN524295 1-SPNSPUR_WND10.6900
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03029	114.3634	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	114.2644	GEN542957 1-IATAN UNIT #1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	114.0759	GEN562023 1-G11_020_3 0.6900
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	114.0759	GEN562026 1-G11_019_3 0.6900
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.9858	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.9346	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.9333	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.8879	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.8091	GEN523201 1-EXCELN4-WTG10.6000
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.7048	GEN659111 2-LELAND OLDS UNIT2
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.6964	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.6432	EASTDC - WELSH 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.5946	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.5159	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.5159	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.2993	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.299	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.2776	GEN523122 1-NBLWND-WTG210.6900
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.2662	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03135	113.2099	GEN520997 1-MORLND2
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.2023	GEN523121 1-NBLWND-WTG110.6900
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03638	113.2015	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.1601	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.16	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.1298	GEN560584 1-G06-44-2 4.1600
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.1071	GEN523107 1-NOVUS_WND 14.1600
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.0653	GEN523123 1-NBLWND-WTG310.6900
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	113.0469	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	112.8791	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	112.7727	GEN526334 1-JONES_4 116.500
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	112.682	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04167	112.6578	SPP-SWPS-02A
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	112.6531	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	112.5882	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0416	112.573	SPP-SWPS-02A
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	112.5461	GEN640009 1-COOPER NUCLEAR STATION

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03342	112.434	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	112.2396	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	112.2181	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03135	112.1942	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	112.1788	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	112.1612	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	111.767	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	111.7181	GEN560585 1-G06-44-3 4.1600
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	111.7171	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	111.1482	GEN526332 1-JONES GEN #2 21 KV
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03177	110.9013	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	110.7293	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS		3	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03458	110.695	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS		3	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03069	110.5487	GEN520997 1-MORLND2
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03452	110.5068	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05098	109.8656	SPP-AEPW-32
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03646	109.7937	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03062	109.5808	BASE CASE
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0304	109.3923	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	109.2651	GEN560286 1-G10-01-1WTG 0.6900
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	109.2651	GEN560287 1-G10-01-2WTG 0.6900
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	109.1151	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	108.988	GEN560371 1-G07-46 0.6900
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	108.8202	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	108.8198	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	108.7981	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	108.6938	GEN560256 1-G10-14-1 0.6900
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03342	108.6392	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	108.481	GEN560257 1-G10-14-2 0.6900
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03135	108.4444	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03069	108.23	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03595	108.1735	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03139	108.0776	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	107.9542	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03003	107.8931	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03145	107.8325	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03073	107.7264	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05029	107.628	SPP-SWPS-01
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03071	107.4894	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03745	107.4205	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05105	107.4107	SPP-AEPW-32
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03744	107.3911	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	107.2897	GEN531447 1-HOLCOMB GENERATOR
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0416	107.2887	SPP-SWPS-02
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0416	107.2835	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0416	107.2265	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05098	107.1671	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03135	107.1278	GEN520998 1-MORLND3
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	106.9477	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04167	106.9384	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04167	106.9038	SPP-SWPS-02
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04167	106.8963	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	106.8781	GEN562042 1-G11_014_3 0.6900
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03595	106.87	SPP-SWPS-05
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03595	106.8115	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS		3	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03625	106.7211	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03002	106.4488	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	106.4187	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	106.2906	GEN514806 1-SOONER UNIT 2
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0307	106.289	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03084	106.1515	FLATRDG3 - HARPER 138KV CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03377	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03377	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03707	106.0575	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03069	105.9641	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03673	105.6216	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03092	105.6032	SPP-MKEC-08
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03672	105.6023	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03128	105.5608	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03072	105.4984	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03092	105.2393	BENTON - ROSE HILL 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03084	105.0996	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03139	105.0078	FARGO JCT - WOODWARD 69KV CKT 1
FDNS		3	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03625	105.0006	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03071	104.9628	MOORE - PAULINE 345KV CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05036	104.9462	SPP-SWPS-01
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05105	104.9062	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03084	104.8119	SPP-MKEC-03B
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03057	104.7776	WRTOD400
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03084	104.7607	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03084	104.7465	SPP-MKEC-03A
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03084	104.6971	SPP-MKEC-05
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03056	104.6597	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03707	104.4125	DEWEY - IODINE 138KV CKT 1
FDNS		3	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03069	104.1841	GEN520998 1-MORLND3
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04769	104.0335	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	103.9699	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03211	103.9327	DEWEY - TALOGA 138KV CKT 1
FDNS	06ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04558	103.6571	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	103.6376	GEN562017 1-G11_022_3 0.6900
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03135	103.4526	BASE CASE
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	102.8572	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03147	102.7939	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	102.786	GEN560121 1-G08-47 0.5750
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	102.5425	NC1_GEN-NEBRASKA CITY 1
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03533	101.8689	WOODWARD - WOODWARD 69KV CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03009	101.8316	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03452	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03452	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		1	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03122	101.3079	GEN520997 1-MORLND2
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03147	101.2211	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03665	101.0241	MOREWOOD SW - NINE MILE 138KV CKT 1
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05198	100.993	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03665	100.6702	MOORELAND - NINE MILE 138KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.568	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.568	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.568	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.568	GEN560224 1-G07-62-4 0.6900
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.5067	GEN524295 1-SPNSPUR_WND10.6900
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.4515	GEN523461 1-BLACKHAWK GEN #1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.4135	GEN523462 1-BLACKHAWK GEN #2
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.4021	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03063	100.3852	IODINE - MOORELAND 138KV CKT 1
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03062	100.3493	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.3269	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.2757	GEN515365 1-CENT 21 34.500
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.2604	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.2548	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03026	100.1638	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.1086	GEN560121 1-G08-47 0.5750
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100.067	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100	GEN531459 2-S2 GENERATOR
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	100	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.917	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.9	GEN539785 1-ENSGW 1 0.5750
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.9	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.8	GEN515393 1-OGWIND2G
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.8	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.8	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.8	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.8	GEN645001 1-FORT CALHOUN 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03062	99.7	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.7	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.7	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.6	GEN560696 1-G11-008-4 0.6900
FDNS		2	0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03014	99.5	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.5	GEN526334 1-JONES_4 116.500
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.5	GEN542962 2-IATAN UNIT #2
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.5	GEN645011 1-NEBRASKA CITY 1
FDNS	03ALL		0	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	99.5	GEN659111 2-LELAND OLDS UNIT2
FDNS		3	0	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03019	223.9645	DBL-WICH-THI
FDNS	01ALL		0	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03049	188.9328	DBL-WICH-THI
FDNS		2	0	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03017	176.1806	DBL-WICH-THI
FDNS		1	0	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03055	168.0853	DBL-WICH-THI
FDNS	04ALL		0	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03044	138.7306	DBL-WICH-THI
FDNS	06ALL		0	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03034	132.2025	DBL-WICH-THI
FDNS		4	0	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03051	130.4421	DBL-WICH-THI
FDNS	06ASGI_11_003		0	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03036	127.7425	DBL-WICH-THI
FDNS		6	0	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03037	127.685	DBL-WICH-THI
FDNS	09ALL		0	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03057	111.2997	DBL-WICH-THI
FDNS		9	0	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0306	110.1027	DBL-WICH-THI
FDNS		13	0	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03066	106.7686	DBL-WICH-THI
FDNS	13ALL		0	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03068	106.1697	DBL-WICH-THI
FDNS		3	0	14G	ASGI_11_003	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03152	100.7172	DBL-WICH-THI
FNSL-Blown up	02ALL		0	14G	ASGI_11_003	-	Non-converged Contingency	-	0.13742	-	DBL-BVR-WWRD
FNSL-Blown up	03ALL		0	14G	ASGI_11_003	-	Non-converged Contingency	-	0.15917	-	DBL-WICH-THI
FDNS	01ALL		0	14G	ASGI_11_003	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.18794	102.794	DBL-THIS-WWR
FDNS		3	2	14G	ASGI_11_003	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.03361	109.6434	DBL-WICH-THI
FDNS		3	2	14G	ASGI_11_003	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.03078	113.6224	DBL-WICH-THI
FDNS		3	2	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03078	209.5236	DBL-WICH-THI
FDNS	09ALL		2	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03057	100.7582	DBL-WICH-THI
FDNS		9	2	14G	ASGI_11_003	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0306	99.6	DBL-WICH-THI
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04258	172.8268	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04258	160.6288	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0419	152.9735	DBL-WICH-THI
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0428	142.7618	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03178	140.3486	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03332	137.81	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03332	136.0836	DEWEY - IODINE 138KV CKT 1
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0428	130.3082	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03137	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03137	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04751	126.9997	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03178	126.8514	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03884	124.8549	SPP-SWPS-03
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03869	124.7372	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03869	124.6975	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03869	123.9346	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03869	121.5078	SPP-SWPS-02A
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03375	121.0796	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04751	117.9566	SPP-AEPW-32
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03194	117.744	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03869	115.9103	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03869	115.8725	SPP-SWPS-02
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03869	115.867	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04679	115.5472	SPP-SWPS-01
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04751	115.2876	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03349	113.8039	IODINE - WOODWARD EHV 138KV CKT 1
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03349	112.073	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03284	107.4899	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03285	107.4837	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0477	104.4333	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03156	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03156	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03194	104.1408	WOODWARD - WOODWARD 69KV CKT 1
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03903	102.9807	SPP-SWPS-03
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03888	102.9398	ELK CITY 230KV - SWEETWATER 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03888	102.9342	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03057	102.4598	BEAVER CO 345.00 - BUCKNER7 345.00 345KV CKT 1
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03888	102.1802	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04489	101.9149	DBL-THIS-WWR
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03109	101.7384	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03392	100.1259	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS		3	2	14G	ASGI_11_003	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03888	99.9	SPP-SWPS-02A
FDNS		3	2	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03078	219.9313	DBL-WICH-THI
FDNS	09ALL		2	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03057	111.2974	DBL-WICH-THI
FDNS		9	2	14G	ASGI_11_003	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0306	110.1004	DBL-WICH-THI
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03457	131.9195	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	ASGI_11_003	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03457	108.3648	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS		3	2	14G	ASGI_11_003	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03503	104.0607	G11-17T 345.00 - POST ROCK 345KV CKT 1
FNSL-Blown up	03ALL		2	14G	ASGI_11_003	-	Non-converged Contingency	-	0.16151	-	DBL-WICH-THI
FDNS		0	0	14SP	G10_055	TO->FROM	BLUEBELL - PRATTVILLE 138KV CKT 1	212	0.04844	104.5876	EXPGLNT4 138.00 - RIVERSIDE STATION 138KV CKT 1
FDNS	00G10_055		0	14SP	G10_055	TO->FROM	BLUEBELL - PRATTVILLE 138KV CKT 1	212	0.04844	104.5876	EXPGLNT4 138.00 - RIVERSIDE STATION 138KV CKT 1
FDNS		0	0	14SP	G10_055	TO->FROM	BLUEBELL - PRATTVILLE 138KV CKT 1	212	0.04844	102.5949	BEELINE - EXPGLNT4 138.00 138KV CKT 1
FDNS	00G10_055		0	14SP	G10_055	TO->FROM	BLUEBELL - PRATTVILLE 138KV CKT 1	212	0.04844	102.5949	BEELINE - EXPGLNT4 138.00 138KV CKT 1
FDNS		0	0	24SP	G10_055	FROM->TO	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	317	0.03024	114.8118	FLINT CREEK - SILOAM SPRINGS TAP 345KV CKT 1
FDNS	00G10_055		0	24SP	G10_055	FROM->TO	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	317	0.03024	114.8118	FLINT CREEK - SILOAM SPRINGS TAP 345KV CKT 1
FDNS		0	0	19SP	G10_055	FROM->TO	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	317	0.03002	106.3469	FLINT CREEK - SILOAM SPRINGS TAP 345KV CKT 1
FDNS	00G10_055		0	19SP	G10_055	FROM->TO	SILOAM CITY - SILOAM SPRINGS 161KV CKT 1	317	0.03002	106.3469	FLINT CREEK - SILOAM SPRINGS TAP 345KV CKT 1
FDNS		3	0	14G	G10_056	FROM->TO	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1	717.1	0.03573	99.6	DBL-IRON-CLR
FDNS	00G10_056		0	24SP	G10_056	FROM->TO	CHARLOTS 161.00 - CROSSTOWN 161KV CKT 1	259	0.03045	111.1706	CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1
FDNS		0	0	24SP	G10_056	FROM->TO	CHARLOTS 161.00 - CROSSTOWN 161KV CKT 1	259	0.03048	109.4395	CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1
FDNS	00G10_056		0	24SP	G10_056	FROM->TO	CHARLOTS 161.00 - CROSSTOWN 161KV CKT 1	259	0.03364	107.1995	NAVY - NORTHEAST 161KV CKT 1
FDNS		0	0	24SP	G10_056	FROM->TO	CHARLOTS 161.00 - CROSSTOWN 161KV CKT 1	259	0.03366	105.6283	NAVY - NORTHEAST 161KV CKT 1
FDNS	00G10_056		0	24SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03045	125.2444	CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1
FDNS		0	0	24SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03048	123.492	CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1
FDNS	00G10_056		0	24SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03364	121.0426	NAVY - NORTHEAST 161KV CKT 1
FDNS		0	0	24SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03366	119.429	NAVY - NORTHEAST 161KV CKT 1
FDNS	00G10_056		0	24SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.04339	110.7293	IATAN - STRANGER CREEK 345KV CKT 1
FDNS	00G10_056		0	24SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03344	110.4102	87th STREET - STRANGER CREEK 345KV CKT 1
FDNS	00G10_056		0	19SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03091	109.7018	CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1
FDNS		0	0	24SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03345	108.7185	87th STREET - STRANGER CREEK 345KV CKT 1
FDNS		0	0	19SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03089	108.6079	CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1
FDNS		0	0	24SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.04341	108.5722	IATAN - STRANGER CREEK 345KV CKT 1
FDNS	00G10_056		0	24SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03257	105.2676	87th STREET - CRAIG 345KV CKT 1
FDNS	00G10_056		0	19SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.0341	105.2665	NAVY - NORTHEAST 161KV CKT 1
FDNS		0	0	19SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03407	104.3289	NAVY - NORTHEAST 161KV CKT 1
FDNS		0	0	24SP	G10_056	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03258	103.6148	87th STREET - CRAIG 345KV CKT 1
FNSL-Blown up		3	0	14G	G10_056	-	Non-converged Contingency	-	0.03885	-	DBL-THIS-CLR
FNSL-Blown up	03ALL		0	14G	G10_056	-	Non-converged Contingency	-	0.03749	-	DBL-IRON-CLR
FNSL-Blown up	03ALL		0	14G	G10_056	-	Non-converged Contingency	-	0.03749	-	DBL-SPRVL-CL
FNSL-Blown up	03ALL		0	14G	G10_056	-	Non-converged Contingency	-	0.03749	-	DBL-THIS-CLR
FDNS		3	0	14G	G10_057	FROM->TO	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1	717.1	0.08981	99.6	DBL-IRON-CLR
FDNS	03ALL		0	14G	G10_057	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.06239	101.8867	BENTON - WICHITA 345KV CKT 1
FNSL-Blown up		3	0	14G	G10_057	-	Non-converged Contingency	-	0.05469	-	DBL-THIS-CLR
FNSL-Blown up	03ALL		0	14G	G10_057	-	Non-converged Contingency	-	0.05333	-	DBL-IRON-CLR
FNSL-Blown up	03ALL		0	14G	G10_057	-	Non-converged Contingency	-	0.05333	-	DBL-SPRVL-CL
FNSL-Blown up	03ALL		0	14G	G10_057	-	Non-converged Contingency	-	0.05333	-	DBL-THIS-CLR
FDNS		03ALL	2	14G	G10_057	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.06175	99.8	BENTON - WICHITA 345KV CKT 1
FNSL-Blown up	03ALL		2	14G	G10_057	-	Non-converged Contingency	-	0.03312	-	DBL-THIS-CLR
FDNS	03ALL		0	14G	G11_008	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.05322	101.8867	BENTON - WICHITA 345KV CKT 1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.08598	121.1759	DBL-WICH-THI
FDNS		3	0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06051	119.818	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS		3	0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.08602	116.3855	DBL-WICH-THI
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06051	111.1413	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.0587	107.9147	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.0587	107.9147	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05404	103.8519	ST JOHN - ST JOHN 115KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05512	103.2496	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05261	102.9098	SPP-MKEC-06
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05261	102.8723	SEWARD - ST JOHN 115KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05324	102.4869	MINGO - RED WILLOW 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05302	102.0044	NORTHWEST - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.0503	101.7766	DBL-BVR-WWRD
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05404	100.811	HUNTSVILLE - ST_JOHN 115KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05302	100.7855	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.04427	100.6725	CLARKCOUNTY7345.00 - IRONWOOD7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05404	100.5905	MIDW-CATB05
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.04427	100.4805	CLARKCOUNTY7345.00 - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05042	100.4685	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05404	100.245	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05169	100.1864	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.0524	100	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05042	99.8	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05042	99.8	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05145	99.7	GREAT BEND TAP - MULLERGREN 115KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05145	99.7	GREAT BEND TAP - SEWARD 115KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05103	99.6	MINGO - SETAB 345KV CKT 1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06095	99.6	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05042	99.5	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	03G11_008		0	14G	G11_008	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.06366	120.1642	DBL-WICH-THI
FDNS		3	0	14G	G11_008	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.06368	115.9877	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_008	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.06343	102.6753	DBL-WICH-THI
FDNS	03G11_008		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06366	221.0377	DBL-WICH-THI
FDNS		3	0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06368	213.7155	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06343	190.5343	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06399	178.5386	DBL-WICH-THI
FDNS		2	0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06367	165.7243	DBL-WICH-THI
FDNS		1	0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06405	157.6022	DBL-WICH-THI
FDNS	03ALL		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03354	150.7681	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03354	150.7681	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03G11_008		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03372	129.7416	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03372	129.7416	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03266	128.2402	DBL-THIS-WWR
FDNS	04ALL		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06394	128.235	DBL-WICH-THI
FDNS		3	0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03373	125.7867	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		3	0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03373	125.7867	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	06ALL		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06383	121.5982	DBL-WICH-THI
FDNS		4	0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06401	119.9346	DBL-WICH-THI
FDNS		6	0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06386	117.0811	DBL-WICH-THI
FDNS	03G11_008		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03278	109.5723	DBL-THIS-WWR
FDNS	02ALL		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03361	108.7705	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03361	108.7705	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		3	0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03278	105.8747	DBL-THIS-WWR
FDNS	01ALL		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03392	102.5586	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03392	102.5586	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	09ALL		0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06407	100.7607	DBL-WICH-THI
FDNS		9	0	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0641	99.6	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_008	TO->FROM	FLATRDG3 - THISTLE4 138.00 138KV CKT 1	286	0.07321	100.1933	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_008	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04874	118.9423	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04745	102.466	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_008	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.0612	102.2764	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04745	183.6191	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06018	176.049	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04745	172.22	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04874	170.3555	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04738	163.201	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06041	156.5515	DBL-WICH-THI
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04759	152.4117	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04738	150.4894	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06044	148.3517	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03323	148.208	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03707	147.9841	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03893	145.84	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03893	144.3366	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03317	143.8222	SPP-SWPS-03
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03316	143.5601	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03316	143.5599	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06036	142.2997	DBL-WICH-THI

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03316	142.2793	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		1	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04852	142.2136	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	141.5129	GEN520997 1-MORLND2
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04759	139.9773	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04762	139.4288	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03316	139.1049	SPP-SWPS-02A
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0612	138.6221	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	135.2137	GEN520998 1-MORLND3
FDNS		3	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04765	135.2056	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03309	135.1133	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03707	134.985	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03323	134.9439	SPP-AEPW-32
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	134.4502	BASE CASE
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03316	133.4836	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03316	133.4786	SPP-SWPS-02
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03316	133.4757	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03323	132.1212	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03333	132.1145	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03702	131.916	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03941	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03941	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03887	129.0896	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	127.6762	GEN520997 1-MORLND2
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03887	127.3742	DEWEY - IODINE 138KV CKT 1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04762	126.7171	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03385	124.8118	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03556	124.5827	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03715	123.8168	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03937	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03937	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03076	123.2898	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03967	123.131	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03556	122.802	SPP-SWPS-04
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03556	122.7854	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS		3	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04765	122.4568	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03606	122.2617	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03427	122.1212	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	122.0695	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03299	122.0571	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03681	121.8925	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03305	121.591	GEN520997 1-MORLND2
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03681	121.5425	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	121.4421	GEN520998 1-MORLND3
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03606	121.3287	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03076	121.2361	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	121.2182	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03459	120.8622	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	120.7092	GEN520922 1-SLEEPING BEAR
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03333	120.684	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03394	120.617	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03412	120.5246	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0335	120.4514	CIMARRON - NORTHWEST 345KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03902	120.3888	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	120.3218	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03501	119.9951	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03376	119.7852	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03366	119.7075	SPP-MKEC-08
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03478	119.5288	AXTELL - POST ROCK 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03365	119.3931	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03371	119.3339	FLATRDRG3 - HARPER 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03335	119.2566	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03331	119.2094	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.033	118.9963	CONWAY SUB - NICHOLS STATION 115KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03277	118.9218	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03376	118.9188	FARGO JCT - FT SUPPLY 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03902	118.6589	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03702	118.6018	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	117.9624	BASE CASE
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03955	117.776	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		1	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06111	117.7097	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	116.875	NC1_GEN-NEBRASKA CITY 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03325	116.4118	SPP-SWPS-03
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03331	116.3194	SPP-SWPS-03
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03324	116.1909	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03324	116.1616	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0333	116.0721	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0333	116.0624	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03305	115.1849	GEN520998 1-MORLND3
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03324	115.1561	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0333	115.0646	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03274	114.7701	LYDIA - VALLIANT 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03273	114.7672	SPP-AEPW-01
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0323	114.6757	DOVER - TWIN LAKES 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	114.6522	GEN515365 1-CENT 21 34.500
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	114.6119	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0323	114.5736	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03379	114.5656	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	114.4248	GEN515393 1-OGEWND2G
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03797	114.4161	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	114.3667	GEN524295 1-SPNSPUR_WND10.6900
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03273	114.3634	KNOBHILL (KNOBHILA) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	114.2644	GEN542957 1-IATAN UNIT #1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0372	114.1756	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	114.0759	GEN562023 1-G11_020_3 0.6900
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	114.0759	GEN562026 1-G11_019_3 0.6900
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.9858	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.9346	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.9333	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03376	113.914	DBL-HTCH-BVR
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.8879	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.8091	GEN523201 1-EXCELN4-WTG10.6000
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0322	113.8019	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.7048	GEN659111 2-LELAND OLDS UNIT2
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.6964	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.6432	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03955	113.6027	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.5946	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.5159	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.5159	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.2993	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.299	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.2776	GEN523122 1-NBLWND-WTG210.6900
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.2662	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03377	113.2099	GEN520997 1-MORLND2
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03665	113.2093	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.2023	GEN523121 1-NBLWND-WTG110.6900
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03311	113.2015	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.1601	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.16	GEN527161 1-MUSTANG GEN #1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03309	113.1502	GEN520997 1-MORLND2
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.1298	GEN560584 1-G06-44-2 4.1600
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.1071	GEN523107 1-NOVUS_WND 14.1600
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.0653	GEN523123 1-NBLWND-WTG310.6900
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.0469	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03665	112.9141	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03248	112.8899	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	112.8791	GEN645012 2-NEBRASKA CITY 2
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03293	112.867	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	112.7727	GEN526334 1-JONES 4 116.500
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	112.682	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03248	112.6638	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0333	112.6578	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	112.6531	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	112.5882	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03324	112.573	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	112.5461	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03084	112.434	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	112.2396	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	112.2181	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03377	112.1942	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	112.1788	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	112.1612	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03543	111.9801	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	111.767	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	111.7181	GEN560585 1-G06-44-3 4.1600
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03421	111.7171	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03173	111.2455	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	111.1482	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03257	111.1262	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03453	110.9013	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03173	110.868	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	110.7293	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS		3	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03722	110.695	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS		3	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03311	110.5487	GEN520997 1-MORLND2
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03715	110.5068	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03543	110.2642	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03906	110.126	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03543	110.0802	SPP-SWPS-04
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03173	110.016	DEWEY - SOUTHARD 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03331	109.8656	SPP-AEPW-32
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0332	109.7937	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03277	109.6092	BYRON_138 138.00 - SANDY_CN_138138.00 138KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03305	109.5808	BASE CASE
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03282	109.3923	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	109.2651	GEN560286 1-G10-01-1WTG 0.6900
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	109.2651	GEN560287 1-G10-01-2WTG 0.6900
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03293	109.1152	SAND RDG 138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	109.1151	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	108.988	GEN560371 1-G07-46 0.6900
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	108.8202	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	108.8198	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	108.7981	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	108.6938	GEN560256 1-G10-14-1 0.6900
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03084	108.6392	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03277	108.5061	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	108.481	GEN560257 1-G10-14-2 0.6900
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03377	108.4444	GEN520922 1-SLEEPING BEAR
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03906	108.4037	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03361	108.23	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03497	108.0776	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	107.9542	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03277	107.9232	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03329	107.8931	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03391	107.8325	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03382	107.7264	MULLERGREY - SPEARVILLE 230KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03341	107.628	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03374	107.4894	CIRCLE - MULLERGREY 230KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	107.4107	SPP-AEPW-32
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	107.2897	GEN531447 1-HOLCOMB GENERATOR
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03324	107.2887	SPP-SWPS-02
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03324	107.2835	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03324	107.2265	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03331	107.1671	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03377	107.1278	GEN520998 1-MORLND3
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	106.9477	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0333	106.9384	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0333	106.9038	SPP-SWPS-02
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0333	106.8963	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	106.8781	GEN562042 1-G11_014 3 0.6900
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03309	106.8278	GEN520998 1-MORLND3
FDNS		3	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03908	106.7211	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0311	106.7179	DOVER SW - OKEENE 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03021	106.6253	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03346	106.4488	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	106.4187	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	106.2906	GEN514806 1-SOONER UNIT 2
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03331	106.289	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03368	106.1515	FLATRDG3 - HARPER 138KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03951	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03951	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0399	106.0575	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03361	105.9641	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03362	105.6032	SPP-MKEC-08
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03409	105.5608	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03341	105.4984	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03411	105.2393	BENTON - ROSE HILL 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03368	105.0996	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03372	105.0078	FARGO JCT - WOODWARD 69KV CKT 1
FDNS		3	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03908	105.0006	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03336	104.9628	MOORE - PAULINE 345KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03348	104.9462	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03357	104.9454	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03272	104.9413	SANDY_CN 138138.00 - WAKITA_138 138.00 138KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	104.9062	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03368	104.8119	SPP-MKEC-03B
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03306	104.7776	WRTOD400
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03368	104.7607	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03368	104.7465	SPP-MKEC-03A
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03368	104.6971	SPP-MKEC-05
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03306	104.6597	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03391	104.5488	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0399	104.4125	DEWEY - IODINE 138KV CKT 1
FDNS		3	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03311	104.1841	GEN520998 1-MORLND3
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03376	104.1479	DBL-BVR-WWRD
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04874	104.0335	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	103.9699	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03491	103.9327	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03304	103.8072	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03304	103.8072	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04664	103.6571	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	103.6376	GEN562017 1-G11_022 3 0.6900
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03377	103.4526	BASE CASE
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03745	102.9651	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	102.8572	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03424	102.7939	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	102.786	GEN560121 1-G08-47 0.5750
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03745	102.7812	BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	102.5425	NC1_GEN-NEBRASKA CITY 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03027	102.4211	IMO TAP - MEN TAP 138KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03304	102.3731	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03955	102.0081	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03955	102.0081	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03797	101.8689	WOODWARD - WOODWARD 69KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03971	101.8316	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03027	101.7071	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04026	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04026	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		1	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03364	101.3079	GEN520997 1-MORLND2
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03424	101.2211	IODINE - MOORELAND 138KV CKT 1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0335	101.1762	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03431	100.993	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0356	100.7059	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0372	100.7016	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.568	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.568	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.568	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.568	GEN560224 1-G07-62-4 0.6900
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.5067	GEN524295 1-SPNSPUR_WND10.6900
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.4515	GEN523461 1-BLACKHAWK GEN #1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.4135	GEN523462 1-BLACKHAWK GEN #2
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.4021	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0334	100.3852	IODINE - MOORELAND 138KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03305	100.3493	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.3269	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.2757	GEN515365 1-CENT 21 34.500
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03226	100.2693	DOVER - TWIN LAKES 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.2604	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.2548	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03226	100.1809	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0327	100.1638	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.1086	GEN560121 1-G08-47 0.5750
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0397	100.0723	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100.067	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100	GEN531459 2-S2 GENERATOR
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	100	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.917	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.9	GEN539785 1-ENSNWG 1 0.5750
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.9	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03243	99.9	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	03G11_008		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03309	99.9	BASE CASE
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.8	GEN515393 1-OGEWND2G
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.8	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.8	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.8	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.8	GEN645001 1-FORT CALHOUN 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03217	99.8	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03305	99.7	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.7	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.7	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03243	99.7	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.6	GEN560696 1-G11-008-4 0.6900
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03683	99.5	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		2	0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0334	99.5	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.5	GEN526334 1-JONES 4 116.500
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.5	GEN542962 2-IATAN UNIT #2
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.5	GEN645011 1-NEBRASKA CITY 1
FDNS	03ALL		0	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	99.5	GEN659111 2-LELAND OLDS UNIT2
FDNS	03G11_008		0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06366	233.6553	DBL-WICH-THI
FDNS		3	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06368	223.9645	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06343	200.8338	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06399	188.9328	DBL-WICH-THI
FDNS		2	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06367	176.1806	DBL-WICH-THI
FDNS		1	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06405	168.0853	DBL-WICH-THI
FDNS	03ALL		0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03354	160.7245	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03354	160.7245	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03G11_008		0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03372	139.6604	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03G11_008		0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03372	139.6604	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	04ALL		0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06394	138.7306	DBL-WICH-THI
FDNS	03ALL		0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03266	138.111	DBL-THIS-WWR
FDNS		3	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03373	135.7814	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		3	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03373	135.7814	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	06ALL		0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06383	132.2025	DBL-WICH-THI
FDNS		4	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06401	130.4421	DBL-WICH-THI
FDNS		6	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06386	127.685	DBL-WICH-THI
FDNS	03G11_008		0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03278	119.3576	DBL-THIS-WWR

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03361	119.0067	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	02ALL	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03361	119.0067	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS		3	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03278	115.7054	DBL-THIS-WWR
FDNS	01ALL	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03392	112.8143	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	01ALL	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03392	112.8143	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS	09ALL	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06407	111.2997	DBL-WICH-THI	
FDNS		9	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0641	110.1027	DBL-WICH-THI
FDNS		2	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03373	107.1642	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		2	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03373	107.1642	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		13	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06416	106.7686	DBL-WICH-THI
FDNS	13ALL	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06418	106.1697	DBL-WICH-THI	
FDNS		1	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03394	102.562	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		1	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03394	102.562	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03G11_008	0	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03545	102.0282	DBL-SPRVL-CL	
FDNS	03G11_008	0	14G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.10983	117.9128	G11-17T 345.00 - POST ROCK 345KV CKT 1	
FDNS		3	0	14G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.10985	113.5448	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL	0	14G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.08385	112.0896	POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1	
FDNS	03G11_008	0	14G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.09755	104.8267	DBL-WICH-THI	
FDNS		3	0	14G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.09757	100.7172	DBL-WICH-THI
FDNS	03ALL	0	14G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.07143	100.6331	MINGO - SETAB 345KV CKT 1	
FDNS	03G11_008	0	14G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.10983	100	G11-17T 345.00 - SPEARVILLE 345KV CKT 1	
FNSL-Blown up		3	0	14G	G11_008	-	-	0.55977	-	DBL-THIS-CLR	
FNSL-Blown up	03ALL	0	14G	G11_008	-	-	-	0.55841	-	DBL-THIS-CLR	
FNSL-Blown up	03ALL	0	14G	G11_008	-	-	-	0.32859	-	DBL-WICH-THI	
FNSL-Blown up	03G11_008	0	14G	G11_008	-	-	-	0.55973	-	DBL-THIS-CLR	
FDNS	01ALL	0	14G	G11_008	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.03077	102.794	DBL-THIS-WWR	
FDNS	04ALL	0	14G	G11_008	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03751	116.8799	DBL-THIS-CLR	
FDNS		4	0	14G	G11_008	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03753	103.2055	DBL-THIS-CLR
FDNS	04ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.11298	116.8432	DBL-THIS-CLR	
FDNS	03G11_008	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.0726	113.6483	DBL-WICH-THI	
FDNS	03ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.05448	113.2969	CIRCLE - MULLERGREN 230KV CKT 1	
FDNS		3	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07263	109.4862	DBL-WICH-THI
FDNS	04ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07297	106.648	DBL-WICH-THI	
FDNS	03ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.051	104.2053	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	03ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.051	104.2053	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS	04ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.06305	102.332	AXTELL - POST ROCK 345KV CKT 1	
FDNS	03ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.04741	100.9796	AXTELL - PAULINE 345KV CKT 1	
FDNS	03ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.04445	100.703	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2	
FDNS	03ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.04445	100.7023	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3	
FDNS	03G11_008	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.0627	100.5331	AXTELL - POST ROCK 345KV CKT 1	
FDNS	03ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.04611	100.4454	GRAND ISLAND - SWEETWATER 345KV CKT 1	
FDNS	03ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.04445	100.4233	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1	
FDNS	03ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.04436	100	DBL-BVR-WWRD	
FDNS	03ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.04665	99.8	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	03ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.04692	99.7	MOORE - PAULINE 345KV CKT 1	
FDNS	03ALL	0	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.04445	99.5	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.05185	99.8	BENTON - WICHITA 345KV CKT 1	
FDNS		3	2	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.10589	117.9935	DBL-THIS-CLR
FDNS	03G11_008	2	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.08091	113.2722	DBL-WICH-THI	
FDNS		3	2	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.08094	109.6434	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.0549	108.6629	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05524	101.1639	AXTELL - POST ROCK 345KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.0549	100.9819	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05909	100.9786	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05909	100.9786	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2	
FDNS	03G11_008	2	14G	G11_008	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.06294	118.5359	DBL-WICH-THI	
FDNS		3	2	14G	G11_008	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.06296	113.6224	DBL-WICH-THI
FDNS	03G11_008	2	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06294	218.1234	DBL-WICH-THI	
FDNS		3	2	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06296	209.5236	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03307	147.5013	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03307	147.5013	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03323	127.228	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03323	127.228	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS		3	2	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03324	123.502	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		3	2	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03324	123.502	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03523	105.2865	DBL-SPRVL-CL	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	09ALL		2	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06407	100.7582	DBL-WICH-THI
FDNS		9	2	14G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0641	99.6	DBL-WICH-THI
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05155	172.8268	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03G11_008		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06346	160.6581	DBL-WICH-THI
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05155	160.6288	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06348	152.9735	DBL-WICH-THI
FDNS	03G11_008		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05176	147.0807	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05178	142.7618	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04057	140.3486	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04256	137.81	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04256	136.0836	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	135.3819	GEN520997 1-MORLND2
FDNS	03G11_008		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05176	134.7281	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05178	130.3082	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0425	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0425	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	129.0801	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03683	126.9997	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03934	126.9983	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04057	126.8514	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	126.4388	BASE CASE
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03693	124.8549	SPP-SWPS-03
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03692	124.7372	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03692	124.6975	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04233	124.4786	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03692	123.9346	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03692	121.5078	SPP-SWPS-02A
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03662	121.2965	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03G11_008		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04072	121.2318	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03654	121.0796	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03976	120.0462	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04233	119.9158	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03976	119.8413	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03G11_008		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03622	119.5219	GEN520997 1-MORLND2
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03561	119.2676	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03865	119.2017	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03798	118.3679	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03683	117.9566	SPP-AEPW-32
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03733	117.8226	MINGO - SETAB 345KV CKT 1
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04074	117.744	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03G11_008		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04272	117.6809	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03934	117.6146	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03865	117.4292	SPP-SWPS-04
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03865	117.3087	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03766	116.9412	MINGO - RED WILLOW 345KV CKT 1
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03624	116.7216	GEN520997 1-MORLND2
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03692	115.9103	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03692	115.8725	SPP-SWPS-02
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03692	115.867	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03G11_008		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04272	115.715	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03692	115.5472	SPP-SWPS-01
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03811	115.5094	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03561	115.487	SAND RDG 138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03683	115.2876	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	115.1958	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03633	115.0158	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03678	115.0003	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	114.3959	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03703	114.287	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03703	114.1293	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03691	114.045	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	113.8484	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03664	113.8214	CIMARRON - NORTHWEST 345KV CKT 1
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04274	113.8039	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	113.4433	GEN514806 1-SOONER UNIT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03735	113.2797	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03647	113.1855	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03682	113.162	FLATRDG3 - HARPER 138KV CKT 1
FDNS	03G11_008		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03622	113.1406	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03952	113.0743	DBL-HTCH-BVR
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0368	113.0242	SPP-MKEC-08
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03678	112.6675	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03696	112.5959	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03682	112.5058	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03657	112.4511	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03674	112.2746	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03682	112.2052	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03682	112.2009	SPP-MKEC-03B
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03725	112.1649	BENTON - ROSE HILL 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03682	112.1641	SPP-MKEC-05
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03682	112.1598	SPP-MKEC-03A
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03652	112.0827	MOORE - PAULINE 345KV CKT 1
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04274	112.073	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03682	112.0386	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	111.9995	GEN520947 1-HUGO1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	111.988	GEN515225 1-MUSKOGEE 5G
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	111.9783	GEN515226 1-MUSKOGEE 6G
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03624	110.3004	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	109.9108	NC1_GEN-NEBRASKA CITY 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.9478	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.9478	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.9478	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.9478	GEN560224 1-G07-62-4 0.6900
FDNS	03G11_008		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04266	107.9223	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03G11_008		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04266	107.9223	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.784	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03655	107.7785	IODINE - MOORELAND 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0358	107.7362	LYDIA - VALLIANT 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0358	107.7337	SPP-AEPW-01
FDNS	03G11_008		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.037	107.6992	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.6833	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.6824	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.6703	GEN560121 1-G08-47 0.5750
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.6304	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.6248	GEN515365 1-CENT 21 34.500
FDNS	03G11_008		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04072	107.613	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03537	107.5373	DOVER - TWIN LAKES 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03111	107.4899	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0311	107.4837	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03583	107.4484	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03537	107.4333	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.396	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.3959	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.2702	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.2461	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.2384	GEN539785 1-ENSNW 1 0.5750
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.2265	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.2051	GEN531459 2-S2 GENERATOR
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.1653	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03528	107.1636	MATHWSN7 345.00 - WOODRING 345KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.1339	GEN515393 1-OGEWND2G
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.128	GEN526334 1-JONES 4 116.500
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.0445	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.0445	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.0243	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	107.005	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03G11_008		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03622	106.9852	BASE CASE
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03524	106.9716	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03547	106.9489	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03503	106.9355	SPP-SWPS-05
FDNS	03ALL		2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.9089	GEN560696 1-G11-008-4 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.8913	GEN645001 1-FORT CALHOUN 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03503	106.8565	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.8361	GEN527902 1-HOBBS PLANT #2 (CT)	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.8148	GEN527901 1-HOBBS PLANT #1 (CT)	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.7561	GEN527882 1-CUNNINGHAM GEN #2 20 KV	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03547	106.7298	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03528	106.713	CIMARRON - MATHWSN7 345.00 345KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.6583	GEN542962 2-IATAN UNIT #2	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.6473	GEN659111 2-LELAND OLDS UNIT2	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.5948	GEN645011 1-NEBRASKA CITY 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.4527	GEN659103 1-ANTELOPE VALLEY UNIT1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.4527	GEN659107 2-ANTELOPE VALLEY UNIT2	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.4106	GEN526331 1-JONES GEN #1 22 KV	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.2382	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.2378	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0371	106.215	SPP-SWPS-03	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.2074	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03709	106.1827	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03709	106.1694	ELK CITY 230KV - SWEETWATER 230KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.0987	GEN560695 1-G11-008-3 0.6900	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.021	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.0123	GEN526332 1-JONES GEN #2 21 KV	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	106.0014	GEN542902 1-GPW_G1 0.6900	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03552	105.9606	CLINTON JUNCTION - ELK CITY 138KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	105.8824	GEN560694 1-G11-008-2 0.6900	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	105.8687	GEN645012 2-NEBRASKA CITY 2	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	105.8022	GEN560514 1-G04_014 0.6900	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04246	105.6707	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	105.5261	GEN640009 1-COOPER NUCLEAR STATION	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03554	105.5131	BYRON_138 138.00 - SANDY_CN_138138.00 138KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	105.3724	GEN527903 1-HOBBS PLANT #3 (ST)	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	105.3523	GEN539807 1-G05-12 0.6900	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03709	105.3352	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	105.169	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	105.082	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	105.029	GEN560238 1-G10-09 0.6900	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	104.6932	GEN523971 1-HARRINGTON GEN #1 24 KV	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	104.693	GEN523972 1-HARRINGTON GEN #2 24 KV	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	104.6785	GEN523973 1-HARRINGTON GEN #3 24 KV	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03674	104.6464	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	104.6111	GEN560659 1-G07-38 0.6900	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	104.5684	GEN562035 1-G11_016_3 0.6900	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	104.5501	GEN560432 1-G08-124 0.6900	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	104.533	GEN560693 1-G11-008-1 0.6900	
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03702	104.4333	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	104.4133	GEN560549 1-G06-06 0.6900	
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04268	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04268	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04074	104.1408	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03554	104.1072	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03472	104.1048	EL RENO - ROMAN NOSE 138KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	104.0766	GEN560329 1-G10-45 0.6900	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	104.0657	GEN531503 1-CIMRRN 1 34.500	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03554	103.7582	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03472	103.7241	ROMAN NOSE - SOUTHARD 138KV CKT 1	
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03624	103.4279	BASE CASE
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03669	103.3246	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03709	103.158	SPP-SWPS-02A	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03573	103.1343	RENFROW4 138.00 - SAND RDG_138138.00 138KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03472	103.0744	DEWEY - SOUTHARD 138KV CKT 1	
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03712	102.9807	SPP-SWPS-03
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03711	102.9398	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03711	102.9342	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	102.7291	GEN523117 1-BUFF_DUNES210.6900	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03949	102.7252	G11-17T 345.00 - POST ROCK 345KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03512	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03512	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.033	102.4598	BEAVER CO 345.00 - BUCKNER7 345.00 345KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	102.4369	GEN562032 1-G11_017 3 0.6900	
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04248	102.1895	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03711	102.1802	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03594	101.9373	MOORELAND - TALOGA 138KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	101.8124	GEN659118 1-LARAMIE RIVER UNIT1	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03988	101.7833	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03405	101.7384	MOREWOOD SW - RED HILLS WIND 138KV CKT 1	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03988	101.6517	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1	
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03675	101.5448	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	101.3654	GEN525561 1-TOLK GEN #1 24 KV	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	101.2021	GEN525562 1-TOLK GEN #2 24 KV	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03393	100.712	DOVER SW - OKEENE 138KV CKT 1	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04246	100.6979	VIOLA 7 345.00 - WICHITA 345KV CKT 1	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03878	100.1965	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03305	100.161	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1	
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03671	100.1259	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	100.0978	RENFROW4 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS		3	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03711	99.9	SPP-SWPS-02A
FDNS	03ALL	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	99.9	GEN531447 1-HOLCOMB GENERATOR	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.037	99.7	SPP-AEPW-32	
FDNS		3	2	14G	G11_008	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.03868	158.3655	DBL-THIS-CLR
FDNS		3	2	14G	G11_008	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.03868	146.9269	DBL-THIS-CLR
FDNS	03G11_008	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06294	228.4221	DBL-WICH-THI	
FDNS		3	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06296	219.9313	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03307	157.4685	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	03ALL	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03307	157.4685	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS	03G11_008	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03323	137.2627	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	03G11_008	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03323	137.2627	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS		3	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03324	133.5941	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		3	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03324	133.5941	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03523	115.3882	DBL-SPRVL-CL	
FDNS	09ALL	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.06407	111.2974	DBL-WICH-THI	
FDNS		9	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0641	110.1004	DBL-WICH-THI
FNSL	03ALL	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03523	105.4626	DBL-IRON-CLR	
FDNS	03G11_008	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03532	104.1812	DBL-SPRVL-CL	
FDNS		3	2	14G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03533	100.2587	DBL-SPRVL-CL
FDNS		3	2	14G	G11_008	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.03868	141.7477	DBL-THIS-CLR
FDNS	03ALL	2	14G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.10072	131.9195	G11-17T 345.00 - POST ROCK 345KV CKT 1	
FDNS		3	2	14G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.13352	113.1846	DBL-THIS-CLR
FDNS	03ALL	2	14G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.10072	108.3648	G11-17T 345.00 - SPEARVILLE 345KV CKT 1	
FDNS	03G11_008	2	14G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.10117	107.953	G11-17T 345.00 - POST ROCK 345KV CKT 1	
FDNS		3	2	14G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.10118	104.0607	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.07731	101.3946	POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1	
FNSL-Blown up	03ALL	2	14G	G11_008	-	Non-converged Contingency	-	0.51635	-	DBL-THIS-CLR	
FNSL-Blown up	03ALL	2	14G	G11_008	-	Non-converged Contingency	-	0.32644	-	DBL-WICH-THI	
FNSL-Blown up	03G11_008	2	14G	G11_008	-	Non-converged Contingency	-	0.51735	-	DBL-THIS-CLR	
FDNS		3	2	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.09162	112.5026	DBL-THIS-CLR
FDNS	03ALL	2	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.0572	110.6659	AXTELL - POST ROCK 345KV CKT 1	
FDNS	03G11_008	2	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.06831	107.3397	DBL-WICH-THI	
FDNS	03ALL	2	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.04953	103.8977	CIRCLE - MULLERGREN 230KV CKT 1	
FDNS		3	2	14G	G11_008	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.06834	103.695	DBL-WICH-THI
FDNS	00G11_010	0	24SP	G11_010	FROM->TO	TUCXFR345230	300	0.03817	99.6	BASE CASE	
FDNS		0	24SP	G11_011	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03443	108.7185	87th STREET - STRANGER CREEK 345KV CKT 1	
FDNS	00G11_011	0	24SP	G11_011	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03443	108.7185	87th STREET - STRANGER CREEK 345KV CKT 1	
FDNS		0	24SP	G11_011	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.05134	108.5722	IATAN - STRANGER CREEK 345KV CKT 1	
FDNS	00G11_011	0	24SP	G11_011	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.05134	108.5722	IATAN - STRANGER CREEK 345KV CKT 1	
FDNS		0	24SP	G11_011	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03275	103.6148	87th STREET - CRAIG 345KV CKT 1	
FDNS	00G11_011	0	24SP	G11_011	TO->FROM	CHARLOTS 161.00 - NORTHEAST 161KV CKT 1	259	0.03275	103.6148	87th STREET - CRAIG 345KV CKT 1	
FDNS		0	24SP	G11_011	TO->FROM	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	446	0.03093	105.7162	GEARY 7 345.00 - JEFFREY ENERGY CENTER 345KV CKT 1	
FDNS	00G11_011	0	24SP	G11_011	TO->FROM	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	446	0.03093	105.7162	GEARY 7 345.00 - JEFFREY ENERGY CENTER 345KV CKT 1	
FDNS		0	19SP	G11_011	TO->FROM	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	446	0.03075	100.7123	GEARY 7 345.00 - JEFFREY ENERGY CENTER 345KV CKT 1	
FDNS	00G11_011	0	19SP	G11_011	TO->FROM	EAST MANHATTAN - JEFFREY ENERGY CENTER 230KV CKT 1	446	0.03075	100.7123	GEARY 7 345.00 - JEFFREY ENERGY CENTER 345KV CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.0333	101.8867	BENTON - WICHITA 345KV CKT 1	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		3	0	14G	G11_014	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.04589	116.3855	DBL-WICH-THI
FDNS	03ALL		0	14G	G11_014	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.04057	101.7766	DBL-BVR-WWRD
FDNS		3	0	14G	G11_014	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04343	115.9877	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_014	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04317	102.6753	DBL-WICH-THI
FDNS		3	0	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04343	213.7155	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04317	190.5343	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04373	178.5386	DBL-WICH-THI
FDNS	02G11_014		0	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0434	172.4331	DBL-WICH-THI
FDNS		2	0	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04341	165.7243	DBL-WICH-THI
FDNS		1	0	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04379	157.6022	DBL-WICH-THI
FDNS	04ALL		0	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04368	128.235	DBL-WICH-THI
FDNS	06ALL		0	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04358	121.5982	DBL-WICH-THI
FDNS		4	0	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04375	119.9346	DBL-WICH-THI
FDNS		6	0	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04361	117.0811	DBL-WICH-THI
FDNS	09ALL		0	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04381	100.7607	DBL-WICH-THI
FDNS		9	0	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04384	99.6	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_014	TO->FROM	EL RENO - ROMAN NOSE 138KV CKT 1	153	0.03189	103.6248	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02G11_014		0	14G	G11_014	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.09913	103.5024	DBL-BVR-WWRD
FDNS	02G11_014		0	14G	G11_014	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.09913	100.9498	DBL-BVR-WWRD
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1	1052	0.51958	101.8419	DBL-BVR-WWRD
FDNS	02G11_014		0	14G	G11_014	FROM->TO	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1	1052	0.51958	103.5779	DBL-BVR-WWRD
FDNS	01ALL		0	14G	G11_014	TO->FROM	FLATRDG3 - THISTLE4 138.00 138KV CKT 1	286	0.0584	100.1933	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.08714	118.9423	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.08937	112.5262	DBL-THIS-WWR
FDNS	02ALL		0	14G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.08585	102.466	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.07918	102.2764	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08585	183.6191	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07816	176.049	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08841	174.3253	DBL-THIS-WWR
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08585	172.22	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08714	170.3555	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08578	163.201	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08602	161.2902	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08937	157.5329	DBL-THIS-WWR
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08598	152.4117	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07836	151.5312	DBL-WICH-THI
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08578	150.4894	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08602	149.0262	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07842	148.3517	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0634	148.208	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06676	147.9841	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08866	146.3268	DBL-THIS-WWR
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06988	145.84	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06988	144.3366	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.068	144.1418	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06519	143.8222	SPP-SWPS-03
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0651	143.5601	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0651	143.5599	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.068	142.6931	SPP-SWPS-05
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.068	142.6063	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07834	142.2997	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0651	142.2793	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		1	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08691	142.2136	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	141.5129	GEN520997 1-MORLND2
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08598	139.9773	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0651	139.1049	SPP-SWPS-02A
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07918	138.6221	DBL-WICH-THI
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08866	136.2059	DBL-THIS-WWR
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	135.2137	GEN520998 1-MORLND3
FDNS		3	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08604	135.2056	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06235	135.1133	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06676	134.985	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0634	134.9439	SPP-AEPW-32
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	134.4502	BASE CASE
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0651	133.4836	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0651	133.4786	SPP-SWPS-02

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0651	133.4757	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0634	132.1212	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06343	132.1145	SPP-SWPS-01
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06672	131.916	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06681	131.1244	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0668	131.1017	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06687	130.7316	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06375	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06375	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06983	129.0896	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	1	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08936	127.868	DBL-THIS-WWR
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	127.6762	GEN520997 1-MORLND2
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07	127.6159	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06983	127.3742	DEWEY - IODINE 138KV CKT 1
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05938	127.3568	GEN520997 1-MORLND2
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07	125.9548	DEWEY - IODINE 138KV CKT 1
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06357	125.692	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05703	124.8118	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06405	124.5827	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06685	123.8168	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06371	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06371	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06535	123.4263	SPP-SWPS-03
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06055	123.2898	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06527	123.1498	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06112	123.131	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06527	123.1245	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06405	122.802	SPP-SWPS-04
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06405	122.7854	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	3	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08604	122.4568	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06052	122.2617	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06527	122.2441	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.061	122.1212	MINGO - SETAB 345KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	122.0695	GEN514805 1-SOONER UNIT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05499	122.0571	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06219	121.8925	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05936	121.591	GEN520997 1-MORLND2
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06219	121.5425	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	121.4421	GEN520998 1-MORLND3
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06052	121.3287	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06055	121.2361	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	121.2182	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05938	120.9803	GEN520998 1-MORLND3
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06117	120.8622	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	120.7092	GEN520922 1-SLEEPING BEAR
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0586	120.684	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06067	120.617	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06145	120.5246	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06004	120.4514	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06997	120.3888	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	120.3218	GEN514806 1-SOONER UNIT 2
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06061	119.9951	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06084	119.7852	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05984	119.7075	SPP-MKEC-08
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06527	119.6565	SPP-SWPS-02A
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0601	119.5288	AXTELL - POST ROCK 345KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05958	119.3931	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05977	119.3339	FLATRDG3 - HARPER 138KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05956	119.2566	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06348	119.2094	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05958	118.9963	CONWAY SUB - NICHOLS STATION 115KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05916	118.9218	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06084	118.9188	FARGO JCT - FT SUPPLY 69KV CKT 1
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06997	118.6589	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06672	118.6018	WOODWARD - WOODWARD 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06812	118.0625	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	117.9624	BASE CASE
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.061	117.776	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		1	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07909	117.7097	DBL-WICH-THI
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06687	117.4378	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	116.875	NC1_GEN-NEBRASKA CITY 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05938	116.6503	BASE CASE
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06812	116.6456	SPP-SWPS-05
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06248	116.5844	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06812	116.5811	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06526	116.4118	SPP-SWPS-03
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06533	116.3194	SPP-SWPS-03
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06518	116.1909	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06518	116.1616	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06524	116.0721	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06524	116.0624	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05936	115.1849	GEN520998 1-MORLND3
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06518	115.1561	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06524	115.0646	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05891	114.7701	LYDIA - VALLIANT 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05891	114.7672	SPP-AEPW-01
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05835	114.6757	DOVER - TWIN LAKES 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	114.6522	GEN515365 1-CENT 21 34.500
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	114.6119	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05835	114.5736	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05697	114.5656	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06357	114.4768	SPP-AEPW-32
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	114.4248	GEN515393 1-OGEWND2G
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06766	114.4161	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	114.3667	GEN524295 1-SPNSPUR_WND10.6900
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05891	114.3634	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06527	114.2645	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	114.2644	GEN542957 1-IATAN UNIT #1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06527	114.2278	SPP-SWPS-02
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06527	114.2217	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	114.0759	GEN562023 1-G11_020 3 0.6900
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	114.0759	GEN562026 1-G11_019 3 0.6900
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.9858	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.9346	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.9333	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09632	113.914	DBL-HTCH-BVR
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.8879	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.8091	GEN523201 1-EXCELN4-WTG10.6000
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05789	113.8019	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.7048	GEN659111 2-LELAND OLDS UNIT2
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.6964	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.6432	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.061	113.6027	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.5946	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.5159	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.5159	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.2993	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.299	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.2776	GEN523122 1-NBLWND-WTG210.6900
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.2662	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06008	113.2099	GEN520997 1-MORLND2
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06203	113.2093	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.2023	GEN523121 1-NBLWND-WTG110.6900
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06237	113.2015	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.1601	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.16	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.1298	GEN560584 1-G06-44-2 4.1600
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.1071	GEN523107 1-NOVUS_WND 14.1600
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.0653	GEN523123 1-NBLWND-WTG310.6900
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	113.0469	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06203	112.9141	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05784	112.8899	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06387	112.8841	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06387	112.8841	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	112.8791	GEN645012 2-NEBRASKA CITY 2
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05492	112.867	RENFROW4 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06695	112.7841	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	112.7727	GEN526334 1-JONES 4 116.500
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06693	112.7631	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	112.682	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05784	112.6638	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06524	112.6578	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	112.6531	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	112.5882	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06518	112.573	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	112.5461	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05792	112.434	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	112.2396	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	112.2181	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06008	112.1942	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	112.1788	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	112.1612	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0636	112.0085	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06392	111.9801	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06357	111.968	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	111.767	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	111.7181	GEN560585 1-G06-44-3 4.1600
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06095	111.7171	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0571	111.2455	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	111.1482	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05758	111.1262	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06111	110.9013	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0571	110.868	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	110.7293	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS		3	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06691	110.695	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS		3	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05942	110.5487	GEN520997 1-MORLND2
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06685	110.5068	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05711	110.4172	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06392	110.2642	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06392	110.0802	SPP-SWPS-04
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0571	110.016	DEWEY - SOUTHARD 138KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06348	109.8566	SPP-AEPW-32
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06245	109.7937	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05604	109.6092	BYRON_138 138.00 - SANDY_CN_138138.00 138KV CKT 1
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05936	109.5808	BASE CASE
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05914	109.3923	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	109.2651	GEN560286 1-G10-01-1WTG 0.6900
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	109.2651	GEN560287 1-G10-01-2WTG 0.6900
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05492	109.1152	SAND RDG_138138.00 - WAKITA_138 138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	109.1151	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	108.988	GEN560371 1-G07-46 0.6900
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	108.8202	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	108.8198	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	108.7981	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	108.6938	GEN560256 1-G10-14-1 0.6900
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05792	108.6392	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05604	108.5061	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	108.481	GEN560257 1-G10-14-2 0.6900
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06008	108.4444	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05954	108.23	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0681	108.1735	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06057	108.0776	BENTON - WICHITA 345KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05506	108.0295	RENFROW4 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0612	107.9839	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	107.9542	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05604	107.9232	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05855	107.8931	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06065	107.8325	HOLCOMB - SETAB 345KV CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05957	107.7264	MULLERGREN - SPEARVILLE 230KV CKT 1	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06412	107.6364	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0635	107.628	SPP-SWPS-01	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05958	107.4894	CIRCLE - MULLERGREN 230KV CKT 1	
FDNS	01ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06765	107.4205	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2	
FDNS	01ALL	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06355	107.4107	SPP-AEPW-32
FDNS	01ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06764	107.3911	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	107.2897	GEN531447 1-HOLCOMB GENERATOR	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06518	107.2887	SPP-SWPS-02	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06518	107.2835	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06518	107.2265	STATLINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06348	107.1671	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1	
FDNS	01ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06008	107.1278	GEN520998 1-MORLN03	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	106.9477	GEN515787 1-OKLA WIND ENERGY CENTER	
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06524	106.9384	STATLINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06524	106.9038	SPP-SWPS-02	
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06524	106.8963	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	106.8781	GEN562042 1-G11_014_3 0.6900	
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0681	106.87	SPP-SWPS-05	
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0681	106.8115	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1	
FDNS	3	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07003	106.7211	IODINE - WOODWARD EHV 138KV CKT 1	
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05507	106.7179	DOVER SW - OKEENE 138KV CKT 1	
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05432	106.6253	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05938	106.5627	GEN514805 1-SOONER UNIT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06	106.4488	CIMARRON - NORTHWEST 345KV CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	106.4187	GEN520922 1-SLEEPING BEAR	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	106.2906	GEN514806 1-SOONER UNIT 2	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05952	106.289	GRAND ISLAND - SWEETWATER 345KV CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05974	106.1515	FLATRDG3 - HARPER 138KV CKT 1	
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06385	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06385	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS	01ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07085	106.0575	IODINE - WOODWARD EHV 138KV CKT 1	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06223	106.0483	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06412	105.98	SPP-SWPS-04	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05954	105.9641	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06412	105.9081	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06223	105.8811	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05938	105.8191	GEN515787 1-OKLA WIND ENERGY CENTER	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06062	105.7261	G11-17T 345.00 - POST ROCK 345KV CKT 1	
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06693	105.6216	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	105.6032	SPP-MKEC-08	
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06692	105.6023	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06141	105.5608	DEWEY - TALOGA 138KV CKT 1	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05869	105.5387	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05954	105.4984	AXTELL - PAULINE 345KV CKT 1	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05938	105.2788	GEN520922 1-SLEEPING BEAR	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05994	105.2393	BENTON - ROSE HILL 345KV CKT 1	
FDNS	02ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05367	105.2351	WOODWARD DISTRICT EHV (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06066	105.1953	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05974	105.0996	HARPER - MILAN TAP 138KV CKT 1	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06112	105.0617	MINGO - SETAB 345KV CKT 1	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06014	105.0447	CIMARRON - NORTHWEST 345KV CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0608	105.0078	FARGO JCT - WOODWARD 69KV CKT 1	
FDNS	3	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07003	105.0006	DEWEY - IODINE 138KV CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05952	104.9628	MOORE - PAULINE 345KV CKT 1	
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06357	104.9462	SPP-SWPS-01	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06043	104.9454	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05598	104.9413	SANDY_CN 138/138.00 - WAKITA 138 138.00 138KV CKT 1	
FDNS	2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06355	104.9062	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05974	104.8119	SPP-MKEC-03B	
FDNS	03ALL	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05933	104.7776	WRTOD400	
FDNS	02G11_014	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06062	104.7609	G11-17T 345.00 - SPEARVILLE 345KV CKT 1	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05974	104.7607	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05974	104.7465	SPP-MKEC-03A
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05938	104.7435	GEN514806 1-SOONER UNIT 2
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05974	104.6971	SPP-MKEC-05
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05932	104.6597	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05709	104.5488	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07085	104.4125	DEWEY - IODINE 138KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05506	104.2815	SAND RDG 138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS		3	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05942	104.1841	GEN520998 1-MORLND3
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06154	104.1439	DEWEY - TALOGA 138KV CKT 1
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08714	104.0335	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06072	104.0066	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	103.9699	GEN525562 1-TOLK GEN #2 24 KV
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06129	103.9666	MINGO - RED WILLOW 345KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06094	103.9481	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06224	103.9327	DEWEY - TALOGA 138KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05994	103.9121	SPP-MKEC-08
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05017	103.8072	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05017	103.8072	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06066	103.7945	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06078	103.7444	HOLCOMB - SETAB 345KV CKT 1
FDNS	06ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08504	103.6571	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	103.6376	GEN562017 1-G11_022_3 0.6900
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05987	103.6347	FLATRDG3 - HARPER 138KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06021	103.5432	AXTELL - POST ROCK 345KV CKT 1
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06008	103.4526	BASE CASE
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05926	103.4417	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06283	102.9651	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	102.8572	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06061	102.7939	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	102.7866	GEN560121 1-G08-47 0.5750
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06283	102.7812	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	102.5425	NC1_GEN-NEBRASKA CITY 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05288	102.5232	WOODWARD - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05296	102.4211	IMO TAP - MEN TAP 138KV CKT 1
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05503	102.3731	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06766	101.8689	WOODWARD - WOODWARD 69KV CKT 1
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06116	101.8316	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05296	101.7071	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	02G11_014		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05938	101.4019	NC1_GEN-NEBRASKA CITY 1
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0646	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0646	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		1	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05996	101.3079	GEN520997 1-MORLND2
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06061	101.2211	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05639	101.0241	MOREWOOD SW - NINE MILE 138KV CKT 1
FDNS	01ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06448	100.993	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06409	100.7059	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05639	100.6702	MOORELAND - NINE MILE 138KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.568	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.568	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.568	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.568	GEN560224 1-G07-62-4 0.6900
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.5067	GEN524295 1-SPNSPUR WND10.6900
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.4515	GEN523461 1-BLACKHAWK GEN #1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.4135	GEN523462 1-BLACKHAWK GEN #2
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.4021	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05977	100.3852	IODINE - MOORELAND 138KV CKT 1
FDNS		2	0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05936	100.3493	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.3269	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.2757	GEN515365 1-CENT 21 34.500
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05832	100.2693	DOVER - TWIN LAKES 138KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.2604	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.2548	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05832	100.1809	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		0	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05887	100.1638	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.1086	GEN560121 1-G08-47 0.5750
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100.067	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100	GEN531459 2-S2 GENERATOR
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	100	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.917	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.9	GEN539785 1-ENSGNW 1 0.5750
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.9	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05779	99.9	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.8	GEN515393 1-OGEWND2G
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.8	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.8	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.8	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.8	GEN645001 1-FORT CALHOUN 1
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05786	99.8	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS		2	0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05936	99.7	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.7	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.7	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05779	99.7	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.6	GEN560696 1-G11-008-4 0.6900
FDNS		2	0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06221	99.5	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		2	0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05867	99.5	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.5	GEN526334 1-JONES 4 116.500
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.5	GEN542962 2-IATAN UNIT #2
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.5	GEN645011 1-NEBRASKA CITY 1
FDNS	03ALL		0 14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05925	99.5	GEN659111 2-LELAND OLDS UNIT2
FDNS	02G11_014		0 14G	G11_014	TO->FROM	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	351	0.08892	105.1902	DBL-BVR-WWRD
FDNS		3	0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04343	223.9645	DBL-WICH-THI
FDNS	02ALL		0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04317	200.8338	DBL-WICH-THI
FDNS	01ALL		0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04373	188.9328	DBL-WICH-THI
FDNS	02G11_014		0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0434	182.8669	DBL-WICH-THI
FDNS		2	0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04341	176.1806	DBL-WICH-THI
FDNS		1	0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04379	168.0853	DBL-WICH-THI
FDNS	04ALL		0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04368	138.7306	DBL-WICH-THI
FDNS	06ALL		0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04358	132.2025	DBL-WICH-THI
FDNS		4	0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04375	130.4421	DBL-WICH-THI
FDNS		6	0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04361	127.685	DBL-WICH-THI
FDNS	09ALL		0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04381	111.2997	DBL-WICH-THI
FDNS		9	0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04384	110.1027	DBL-WICH-THI
FDNS		13	0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0439	106.7686	DBL-WICH-THI
FDNS	13ALL		0 14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04392	106.1697	DBL-WICH-THI
FDNS	00G11_014		0 24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04163	111.9074	OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00G11_014		0 24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04163	111.6943	HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1
FDNS	00G11_014		0 24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04163	109.293	OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00G11_014		0 24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04163	109.1192	HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1
FDNS	00G11_014		0 24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.05501	104.8274	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_014		0 24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.05501	103.5811	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_014		0 24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.05501	102.9646	SPP-SWPS-04
FDNS	00G11_014		0 24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.05501	102.5982	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS		0	0 24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04164	102.4132	OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00G11_014		0 24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.03677	102.3988	MOORE COUNTY INTERCHANGE (ENRCO 136402) 230/115/13.2KV TRANSFORMER CKT 1
FDNS		0	0 24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04164	102.1927	HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1
FDNS	00G11_014		0 24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.05501	101.8169	SPP-SWPS-04

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	00G11_014	0	24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.05501	101.4699	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	00G11_014	0	24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04626	100.5388	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	00G11_014	0	24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.03677	100.2967	MOORE COUNTY INTERCHANGE (ENRCO 136402) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	0	0	24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04164	100.0532	OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	0	0	24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04164	99.9	HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1
FDNS	00G11_014	0	24SP	G11_014	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.03409	99.5	BASE CASE
FDNS	3	0	14G	G11_014	TO->FROM	MULLERGREEN - SPEARVILLE 230KV CKT 1	398	0.04133	113.5448	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	3	0	14G	G11_014	TO->FROM	MULLERGREEN - SPEARVILLE 230KV CKT 1	398	0.04532	100.7172	DBL-WICH-THI
FNSL-Blown up	02ALL	0	14G	G11_014	-	Non-converged Contingency	-	0.56246	-	DBL-BVR-WWRD
FNSL-Blown up	03ALL	0	14G	G11_014	-	Non-converged Contingency	-	0.22786	-	DBL-WICH-THI
FDNS	01ALL	0	14G	G11_014	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.28239	102.794	DBL-THIS-WWR
FDNS	01ALL	0	14G	G11_014	TO->FROM	ROMAN NOSE - SOUTHARD 138KV CKT 1	153	0.03189	107.0659	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	3	0	14G	G11_014	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03895	109.4862	DBL-WICH-THI
FDNS	04ALL	0	14G	G11_014	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03929	106.648	DBL-WICH-THI
FDNS	03ALL	0	14G	G11_014	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03554	100	DBL-BVR-WWRD
FDNS	03ALL	2	14G	G11_014	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.03581	99.8	BENTON - WICHITA 345KV CKT 1
FNSL	03ALL	2	14G	G11_014	TO->FROM	CIRCLE - MULLERGREEN 230KV CKT 1	318.7	0.03889	120.7977	DBL-IRON-CLR
FDNS	3	2	14G	G11_014	TO->FROM	CIRCLE - MULLERGREEN 230KV CKT 1	318.7	0.03935	117.9935	DBL-THIS-CLR
FDNS	3	2	14G	G11_014	TO->FROM	CIRCLE - MULLERGREEN 230KV CKT 1	318.7	0.05426	109.6434	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_014	TO->FROM	CIRCLE - MULLERGREEN 230KV CKT 1	318.7	0.03493	108.6629	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	CIRCLE - MULLERGREEN 230KV CKT 1	318.7	0.03448	101.1639	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	CIRCLE - MULLERGREEN 230KV CKT 1	318.7	0.03889	100.9951	DBL-SPRVL-CL
FDNS	03ALL	2	14G	G11_014	TO->FROM	CIRCLE - MULLERGREEN 230KV CKT 1	318.7	0.03493	100.9819	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	CIRCLE - MULLERGREEN 230KV CKT 1	318.7	0.03128	100.9786	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	CIRCLE - MULLERGREEN 230KV CKT 1	318.7	0.03128	100.9786	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2
FDNS	3	2	14G	G11_014	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04471	113.6224	DBL-WICH-THI
FDNS	3	2	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04471	209.5236	DBL-WICH-THI
FDNS	09ALL	2	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04381	100.7582	DBL-WICH-THI
FDNS	9	2	14G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04384	99.6	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07754	172.8268	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07754	160.6288	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07362	152.9735	DBL-WICH-THI
FDNS	3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07777	142.7618	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06081	140.3486	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06365	137.81	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06365	136.0836	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	135.3819	GEN520997 1-MORLND2
FDNS	3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07777	130.3082	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05859	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05859	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	129.0801	GEN520998 1-MORLND3
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05743	126.9997	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05579	126.9983	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06081	126.8514	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	126.4388	BASE CASE
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05901	124.8549	SPP-SWPS-03
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05894	124.7372	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05894	124.6975	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05666	124.4786	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05894	123.9346	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05894	121.5078	SPP-SWPS-02A
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05229	121.2965	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05661	121.0795	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05689	120.0462	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0566	119.9158	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05689	119.8413	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05046	119.2676	RENFROWA 138.00 - SAND RDG 138/138.00 138KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05813	119.2017	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05511	118.3679	AXTELL - POST ROCK 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05743	117.9566	SPP-AEPW-32
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05613	117.8226	MINGO - SETAB 345KV CKT 1
FDNS		3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06098	117.744	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05579	117.6146	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05813	117.4292	SPP-SWPS-04
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05813	117.3087	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05633	116.9412	MINGO - RED WILLOW 345KV CKT 1
FDNS		3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05417	116.7216	GEN520997 1-MORLND2
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05894	115.9103	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05894	115.867	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05747	115.5472	SPP-SWPS-01
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05545	115.5094	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05046	115.487	SAND RDG 138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05743	115.2876	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	115.1958	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05351	115.0158	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05447	115.0003	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	114.3959	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05452	114.287	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05575	114.1293	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05455	114.045	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	113.8484	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05471	113.8214	CIMARRON - NORTHWEST 345KV CKT 1
FDNS		3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06383	113.8039	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	113.4433	GEN514806 1-SOONER UNIT 2
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05598	113.2797	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05437	113.1855	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05454	113.162	FLATRDG3 - HARPER 138KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07064	113.0743	DBL-HTCH-BVR
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05455	113.0242	SPP-MKEC-08
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05447	112.6675	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05542	112.5959	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05454	112.5058	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0544	112.4511	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05507	112.2746	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05454	112.2052	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05454	112.2009	SPP-MKEC-03B
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05479	112.1649	BENTON - ROSE HILL 345KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05454	112.1641	SPP-MKEC-05
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05454	112.1598	SPP-MKEC-03A
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05437	112.0827	MOORE - PAULINE 345KV CKT 1
FDNS		3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06383	112.073	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05454	112.0386	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	111.9995	GEN520947 1-HUGO1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	111.988	GEN515225 1-MUSKOGEE 5G
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	111.9783	GEN515226 1-MUSKOGEE 6G
FDNS		3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05417	110.3004	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	109.9108	NC1_GEN-NEBRASKA CITY 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.9478	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.9478	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.9478	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.9478	GEN560224 1-G07-62-4 0.6900
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.784	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05452	107.7785	IODINE - MOORELAND 138KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05364	107.7362	LYDIA - VALLIANT 345KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05364	107.7337	SPP-AEPW-01
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.6833	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.6824	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.6703	GEN560121 1-G08-47 0.5750
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.6304	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.6248	GEN515365 1-CENT 21 34.500
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05314	107.5373	DOVER - TWIN LAKES 138KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05883	107.4899	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05884	107.4837	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL		2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05367	107.4484	NOBHILL (NOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05314	107.4333	DOVER - DOVER SW 138KV CKT 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.396	GEN527162 1-MUSTANG GEN #2	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.3959	GEN527161 1-MUSTANG GEN #1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.2702	GEN539762 1-SSWIND 1 34.500	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.2461	GEN542957 1-IATAN UNIT #1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.2384	GEN539785 1-ENSGW 1 0.5750	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.2265	GEN560267 1-G10-15-1 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.2051	GEN531459 2-S2 GENERATOR	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.1653	GEN560268 1-G10-15-2 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05382	107.1636	MATHWSN7 345.00 - WOODRING 345KV CKT 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.1339	GEN515393 1-OGEWND2G	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.128	GEN526334 1-JONES 4 116.500	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.0445	GEN562023 1-G11_020_3 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.0445	GEN562026 1-G11_019_3 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.0243	GEN539767 1-GRAY COUNTY WIND FARM	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	107.005	GEN527163 1-MUSTANG GEN #3 22 KV	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05275	106.9716	WOODWARD - WOODWARD EHV 138KV CKT 2	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05271	106.9489	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05605	106.9355	SPP-SWPS-05	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.9089	GEN560696 1-G11-008-4 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.8913	GEN645001 1-FORT CALHOUN 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05605	106.8565	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.8361	GEN527902 1-HOBBS PLANT #2 (CT)	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.8148	GEN527901 1-HOBBS PLANT #1 (CT)	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.7561	GEN527882 1-CUNNINGHAM GEN #2 20 KV	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05271	106.7298	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05382	106.713	CIMARRON - MATHWSN7 345.00 345KV CKT 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.6583	GEN542962 2-IATAN UNIT #2	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.6473	GEN659111 2-LELAND OLDS UNIT2	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.5948	GEN645011 1-NEBRASKA CITY 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.4527	GEN659103 1-ANTELOPE VALLEY UNIT1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.4527	GEN659107 2-ANTELOPE VALLEY UNIT2	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.4106	GEN526331 1-JONES GEN #1 22 KV	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.2382	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.2378	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.2074	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.0987	GEN560695 1-G11-008-3 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.021	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.0123	GEN526332 1-JONES GEN #2 21 KV	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	106.0014	GEN542902 1-GPW_G1 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0525	105.9606	CLINTON JUNCTION - ELK CITY 138KV CKT 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	105.8824	GEN560694 1-G11-008-2 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	105.8687	GEN645012 2-NEBRASKA CITY 2	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	105.8022	GEN560514 1-G04_014 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	105.5261	GEN640009 1-COOPER NUCLEAR STATION	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0513	105.5131	BYRON_138 138.00 - SANDY_CN 138138.00 138KV CKT 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	105.3724	GEN527903 1-HOBBS PLANT #3 (ST)	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	105.3523	GEN539807 1-G05-12 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	105.169	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	105.082	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	105.029	GEN560238 1-G10-09 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	104.6932	GEN523971 1-HARRINGTON GEN #1 24 KV	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	104.693	GEN523972 1-HARRINGTON GEN #2 24 KV	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	104.6785	GEN523973 1-HARRINGTON GEN #3 24 KV	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	104.6111	GEN560659 1-G07-38 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	104.5684	GEN562035 1-G11_016_3 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	104.5501	GEN560432 1-G08-124 0.6900	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	104.533	GEN560693 1-G11-008-1 0.6900	
FDNS		3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05762	104.4333	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	104.4133	GEN560549 1-G06-06 0.6900	
FDNS		3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05877	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05877	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06098	104.1408	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0513	104.1072	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05201	104.1048	EL RENO - ROMAN NOSE 138KV CKT 1	
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	104.0766	GEN560329 1-G10-45 0.6900	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	104.0657	GEN531503 1-CIMRRN 1 34.500
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0513	103.7582	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05201	103.7241	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05417	103.4279	BASE CASE
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05201	103.0744	DEWEY - SOUTHARD 138KV CKT 1
FDNS	3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0592	102.9807	SPP-SWPS-03
FDNS	3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05913	102.9398	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05913	102.9342	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	102.7291	GEN523117 1-BUFF_DUNES210.6900
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04561	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04561	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05931	102.4598	BEAVER CO 345.00 - BUCKNER7 345.00 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	102.4369	GEN562032 1-G11_017 3 0.6900
FDNS	3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05674	102.1895	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05913	102.1802	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05389	101.9373	MOORELAND - TALOGA 138KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07134	101.9149	DBL-THIS-WWR
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	101.8124	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05264	101.7384	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS	3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05243	101.5448	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	101.3654	GEN525561 1-TOLK GEN #1 24 KV
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	101.2021	GEN525562 1-TOLK GEN #2 24 KV
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05024	100.712	DOVER SW - OKEENE 138KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04948	100.161	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05678	100.1259	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05059	100.0978	RENFROW4 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS	3	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05913	99.9	SPP-SWPS-02A
FDNS	03ALL	2	14G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	99.9	GEN531447 1-HOLCOMB GENERATOR
FDNS	3	2	14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04471	219.9313	DBL-WICH-THI
FDNS	09ALL	2	14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04381	111.2974	DBL-WICH-THI
FDNS	9	2	14G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04384	110.1004	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_014	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.0537	131.9195	G11-17T 345.00 - POST ROCK 345KV CKT 1
FNLSL	03ALL	2	14G	G11_014	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.04429	114.9839	DBL-IRON-CLR
FDNS	3	2	14G	G11_014	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.04469	113.1846	DBL-THIS-CLR
FDNS	03ALL	2	14G	G11_014	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.0537	108.3648	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	3	2	14G	G11_014	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.05415	104.0607	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.04014	101.3946	POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1
FNLSL-Blown up	03ALL	2	14G	G11_014	-	Non-converged Contingency	-	0.23259	-	DBL-WICH-THI
FNLSL-Blown up	03ALL	2	14G	G11_014	-	Non-converged Contingency	-	0.08472	-	DBL-THIS-CLR
FNLSL	03ALL	2	14G	G11_014	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03441	115.3092	DBL-IRON-CLR
FDNS	3	2	14G	G11_014	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03479	112.5026	DBL-THIS-CLR
FDNS	03ALL	2	14G	G11_014	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.0356	110.6659	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_014	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03178	103.8977	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	3	2	14G	G11_014	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.046	103.695	DBL-WICH-THI
FDNS	3	0	14G	G11_016	FROM->TO	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1	717.1	0.41741	99.6	DBL-IRON-CLR
FDNS	03ALL	0	14G	G11_016	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.04943	101.8867	BENTON - WICHITA 345KV CKT 1
FDNS	03G11_016	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.09558	123.2803	DBL-WICH-THI
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07892	119.818	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	3	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.09566	116.3855	DBL-WICH-THI
FDNS	3	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.13067	116.3465	DBL-IRON-CLR
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07892	111.1413	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07277	107.9147	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07277	107.9147	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03G11_016	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.13059	105.6182	DBL-SPRVL-CL
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07006	103.8519	ST JOHN - ST JOHN 115KV CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07191	103.2496	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06993	102.9098	SPP-MKEC-06
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06993	102.8723	SEWARD - ST JOHN 115KV CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06911	102.4869	MINGO - RED WILLOW 345KV CKT 1
FDNS	03G11_016	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07932	102.1899	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06836	102.0044	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.0668	101.7766	DBL-BVR-WWRD
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07006	100.811	HUNTSVILLE - ST JOHN 115KV CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06836	100.7855	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07213	100.6725	CLARKCOUNTY7345.00 - IRONWOOD7 345.00 345KV CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07006	100.5905	MIDW-CATB05

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07213	100.4805	CLARKCOUNTY7345.00 - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06586	100.4685	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07006	100.245	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06735	100.1864	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06818	100	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06586	99.8	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	03ALL		0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06586	99.8	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	03ALL		0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06776	99.7	GREAT BEND TAP - MULLERGREN 115KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06776	99.7	GREAT BEND TAP - SEWARD 115KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06657	99.6	MINGO - SETAB 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06586	99.5	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	03G11_016		0	14G	G11_016	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.05447	121.4025	DBL-WICH-THI
FDNS		3	0	14G	G11_016	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.05452	115.9877	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_016	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.05427	102.6753	DBL-WICH-THI
FDNS	03G11_016		0	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05447	223.1777	DBL-WICH-THI
FDNS		3	0	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05452	213.7155	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05427	190.5343	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05483	178.5386	DBL-WICH-THI
FDNS		2	0	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05451	165.7243	DBL-WICH-THI
FDNS		1	0	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05489	157.6022	DBL-WICH-THI
FDNS	04ALL		0	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05478	128.235	DBL-WICH-THI
FDNS	06ALL		0	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05467	121.5982	DBL-WICH-THI
FDNS		4	0	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05485	119.9346	DBL-WICH-THI
FDNS		6	0	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0547	117.0811	DBL-WICH-THI
FDNS	09ALL		0	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0549	100.7607	DBL-WICH-THI
FDNS		9	0	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05494	99.6	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_016	TO->FROM	FLATRDG3 - THISTLE4 138.00 138KV CKT 1	286	0.05004	100.1933	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_016	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04688	118.9423	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04559	102.466	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_016	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.0554	102.2764	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04559	183.6191	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05438	176.049	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04559	172.22	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04688	170.3555	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04552	163.201	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05461	158.1517	DBL-WICH-THI
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04572	152.4117	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04552	150.4894	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05464	148.3517	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03199	148.208	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0356	147.9841	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03739	145.84	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03739	144.3366	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03212	143.8222	SPP-SWPS-03
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03211	143.5601	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03211	143.5599	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05456	142.2997	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03211	142.2793	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		1	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04665	142.2136	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	141.5129	GEN520997 1-MORLND2
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04577	140.2678	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04572	139.9773	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03211	139.1049	SPP-SWPS-02A
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0554	138.6221	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	135.2137	GEN520998 1-MORLND3
FDNS		3	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04579	135.2056	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03192	135.1133	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0356	134.985	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03199	134.9439	SPP-AEPW-32
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	134.4502	BASE CASE
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03211	133.4836	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03211	133.4786	SPP-SWPS-02
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03211	133.4757	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03199	132.1212	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03209	132.1145	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03556	131.916	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03704	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03704	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03734	129.0896	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	127.6762	GEN520997 1-MORLND2
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04577	127.4402	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03734	127.3742	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03249	124.8118	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03438	124.5827	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03569	123.8168	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.037	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.037	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03804	123.131	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03438	122.802	SPP-SWPS-04
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03438	122.7854	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS		3	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04579	122.4568	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03546	122.2617	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03317	122.1212	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	122.0695	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	122.0571	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03529	121.8925	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03175	121.591	GEN520997 1-MORLND2
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03529	121.5425	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	121.4421	GEN520998 1-MORLND3
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03546	121.3287	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	121.2182	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03354	120.8622	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	120.7092	GEN520922 1-SLEEPING BEAR
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03201	120.684	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0328	120.617	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03277	120.5246	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03218	120.4514	CIMARRON - NORTHWEST 345KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03748	120.3888	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	120.3218	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03356	119.9951	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03242	119.7852	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03213	119.7075	SPP-MKEC-08
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03378	119.5288	AXTELL - POST ROCK 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03254	119.3931	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03233	119.3339	FLATRDG3 - HARPER 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03212	119.2566	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03207	119.2094	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03171	118.9963	CONWAY SUB - NICHOLS STATION 115KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03149	118.9218	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03242	118.9188	FARGO JCT - FT SUPPLY 69KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03748	118.6589	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03556	118.6018	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	117.9624	BASE CASE
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03792	117.776	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		1	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05531	117.7097	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	116.875	NC1_GEN-NEBRASKA CITY 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0322	116.4118	SPP-SWPS-03
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03226	116.3194	SPP-SWPS-03
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03219	116.1909	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03219	116.1616	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03225	116.0721	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03225	116.0624	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03175	115.1849	GEN520998 1-MORLND3
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03219	115.1561	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03225	115.0646	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	114.8019	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03145	114.7701	LYDIA - VALLIANT 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03145	114.7672	SPP-AEPW-01
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03102	114.6757	DOVER - TWIN LAKES 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	114.6522	GEN515365 1-CENT 21 34.500
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03211	114.6119	IODINE - MOORELAND 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03102	114.5736	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03243	114.5656	RENFROW 7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	114.4248	GEN515393 1-OGEWND2G
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03651	114.4161	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	114.3667	GEN524295 1-SPNSPUR_WND10.6900
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03144	114.3634	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	114.2644	GEN542957 1-IATAN UNIT #1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	114.0759	GEN562023 1-G11_020_3 0.6900
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	114.0759	GEN562026 1-G11_019_3 0.6900
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.9858	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.9346	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.9333	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.8879	GEN645001 1-FORT CALHOUN 1
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	113.8271	GEN520997 1-MORLN02
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.8091	GEN523201 1-EXCELN4-WTG10.6000
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03093	113.8019	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.7048	GEN659111 2-LELAND OLDS UNIT2
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.6964	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.6432	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03792	113.6027	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.5946	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.5159	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.5159	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.2993	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.299	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.2776	GEN523122 1-NBLWND-WTG210.6900
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.2662	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03247	113.2099	GEN520997 1-MORLN02
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03512	113.2093	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.2023	GEN523121 1-NBLWND-WTG110.6900
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03194	113.2015	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.1601	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.16	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.1298	GEN560584 1-G06-44-2 4.1600
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.1071	GEN523107 1-NOVUS_WND 14.1600
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.0653	GEN523123 1-NBLWND-WTG310.6900
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	113.0469	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03512	112.9141	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03117	112.8899	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	112.8791	GEN645012 2-NEBRASKA CITY 2
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0316	112.867	RENFROW4 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	112.7727	GEN526334 1-JONES 4 116.500
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	112.682	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03117	112.6638	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL	2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03225	112.6578	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	112.6531	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	112.5882	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03219	112.573	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	112.5461	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	112.2396	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	112.2181	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03247	112.1942	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	112.1788	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	112.1612	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03425	111.9801	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	111.767	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	111.7181	GEN560585 1-G06-44-3 4.1600
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03312	111.7171	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03048	111.2455	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	111.1482	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03124	111.1262	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	110.9013	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03048	110.868	ROMAN NOSE - SOUTHDARD 138KV CKT 1
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03753	110.8098	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	110.7293	GEN527903 1-HOBBS PLANT #3 (ST)

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		3	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03576	110.695	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS		3	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03181	110.5487	GEN520997 1-MORLND2
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03569	110.5068	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03425	110.2642	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03425	110.0802	SPP-SWPS-04
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03048	110.016	DEWEY - SOUTHWARD 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03207	109.8656	SPP-AEPW-32
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03203	109.7937	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03146	109.6092	BYRON_138 138.00 - SANDY_CN_138138.00 138KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03175	109.5808	BASE CASE
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03153	109.3923	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	109.2651	GEN560286 1-G10-01-1WTG 0.6900
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	109.2651	GEN560287 1-G10-01-2WTG 0.6900
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0316	109.1152	SAND RDG_138138.00 - WAKITA_138 138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	109.1151	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03753	109.0883	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	108.988	GEN560371 1-G07-46 0.6900
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	108.8202	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	108.8198	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	108.7981	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	108.6938	GEN560256 1-G10-14-1 0.6900
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03146	108.5061	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	108.481	GEN560257 1-G10-14-2 0.6900
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03247	108.4444	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0325	108.23	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03351	108.0776	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	107.9542	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03146	107.9232	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03197	107.8931	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03277	107.8325	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03276	107.7264	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03216	107.628	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03268	107.4894	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	107.4825	GEN520998 1-MORLND3
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03214	107.4107	SPP-AEPW-32
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	107.2897	GEN531447 1-HOLCOMB GENERATOR
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03219	107.2887	SPP-SWPS-02
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03219	107.2835	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03219	107.2265	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03207	107.1671	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03247	107.1278	GEN520998 1-MORLND3
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	106.9477	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03225	106.9384	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03225	106.9038	SPP-SWPS-02
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03225	106.8963	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	106.8781	GEN562042 1-G11_014_3 0.6900
FDNS		3	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03754	106.7211	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03213	106.4488	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	106.4187	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	106.2906	GEN514806 1-SOONER UNIT 2
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03208	106.289	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03229	106.1515	FLATRDG3 - HARPER 138KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03715	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03715	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03836	106.0575	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0325	105.9641	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03209	105.6032	SPP-MKEC-08
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03274	105.5608	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03219	105.4984	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03273	105.2393	BENTON - ROSE HILL 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03229	105.0996	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03239	105.0078	FARGO JCT - WOODWARD 69KV CKT 1
FDNS		3	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03754	105.0006	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03213	104.9628	MOORE - PAULINE 345KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03223	104.9462	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0323	104.9454	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03141	104.9413	SANDY_CN 138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03214	104.9062	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03229	104.8119	SPP-MKEC-03B
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03176	104.7776	WRTOD400
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03229	104.7607	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03229	104.7465	SPP-MKEC-03A
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03229	104.6971	SPP-MKEC-05
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03175	104.6597	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03255	104.5488	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03836	104.4125	DEWEY - IODINE 138KV CKT 1
FDNS		3	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03181	104.1841	GEN520998 1-MORLND3
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04688	104.0335	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	103.9699	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03356	103.9327	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03125	103.8072	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03125	103.8072	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04478	103.6571	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	103.6376	GEN562017 1-G11_022_3 0.6900
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03247	103.4526	BASE CASE
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03592	102.9651	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	102.8572	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03292	102.7939	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	102.786	GEN560121 1-G08-47 0.5750
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03592	102.7812	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0372	102.7164	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0372	102.7164	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	102.5425	NC1_GEN-NEBRASKA CITY 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03171	102.3731	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03651	101.8689	WOODWARD - WOODWARD 69KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03808	101.8316	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03228	101.783	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	101.3365	WOODWARD - WOODWARD 69KV CKT 1
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0379	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0379	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		1	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03234	101.3079	GEN520997 1-MORLND2
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03292	101.2211	IODINE - MOORELAND 138KV CKT 1
FDNS	01ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03307	100.993	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03808	100.7481	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03442	100.7059	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.568	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.568	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.568	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.568	GEN560224 1-G07-62-4 0.6900
FDNS	03G11_016		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	100.5611	BASE CASE
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.5067	GEN524295 1-SPNSPUR_WND10.6900
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.4515	GEN523461 1-BLACKHAWK GEN #1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.4135	GEN523462 1-BLACKHAWK GEN #2
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.4021	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03208	100.3852	IODINE - MOORELAND 138KV CKT 1
FDNS		2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03175	100.3493	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.3269	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.2757	GEN515365 1-CENT 21 34.500
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03099	100.2693	DOVER - TWIN LAKES 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.2604	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.2548	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03099	100.1809	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03141	100.1638	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.1086	GEN560121 1-G08-47 0.5750
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100.067	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100	GEN531459 2-S2 GENERATOR
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	100	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.917	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.9	GEN539785 1-ENSNW 1 0.5750
FDNS	03ALL		0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.9	GEN560268 1-G10-15-2 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03112	99.9	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.8	GEN515393 1-0GEWND2G
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.8	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.8	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.8	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.8	GEN645001 1-FORT CALHOUN 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0309	99.8	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03175	99.7	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.7	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.7	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03112	99.7	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	03G11_016	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0324	99.7	SPP-SWPS-03
FDNS	03G11_016	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03239	99.7	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03G11_016	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03239	99.7	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.6	GEN560696 1-G11-008-4 0.6900
FDNS	03G11_016	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03258	99.6	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0353	99.5	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03208	99.5	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.5	GEN526334 1-JONES 4 116.500
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.5	GEN542962 2-IATAN UNIT #2
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.5	GEN645011 1-NEBRASKA CITY 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	99.5	GEN659111 2-LELAND OLDS UNIT2
FDNS	3	0	14G	G11_016	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.0494	150.928	DBL-IRON-CLR
FDNS	03G11_016	0	14G	G11_016	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.0494	131.7349	DBL-SPRVL-CL
FDNS	3	0	14G	G11_016	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.0494	123.2897	DBL-SPRVL-CL
FDNS	3	0	14G	G11_016	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.0494	139.6867	DBL-IRON-CLR
FDNS	03G11_016	0	14G	G11_016	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.0494	120.8221	DBL-SPRVL-CL
FDNS	3	0	14G	G11_016	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.0494	112.461	DBL-SPRVL-CL
FDNS	03G11_016	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05447	235.783	DBL-WICH-THI
FDNS	3	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05452	223.9645	DBL-WICH-THI
FDNS	02ALL	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05427	200.8338	DBL-WICH-THI
FDNS	01ALL	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05483	188.9328	DBL-WICH-THI
FDNS	2	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05451	176.1806	DBL-WICH-THI
FDNS	1	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05489	168.0853	DBL-WICH-THI
FDNS	04ALL	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05478	138.7306	DBL-WICH-THI
FDNS	06ALL	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05467	132.2025	DBL-WICH-THI
FDNS	4	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05485	130.4421	DBL-WICH-THI
FDNS	6	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0547	127.685	DBL-WICH-THI
FDNS	09ALL	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0549	111.2997	DBL-WICH-THI
FDNS	9	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05494	110.1027	DBL-WICH-THI
FDNS	13	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.055	106.7686	DBL-WICH-THI
FDNS	13ALL	0	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05502	106.1697	DBL-WICH-THI
FNSL	00G11_016	0	19WP	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05669	103.7826	DBL-WICH-THI
FDNS	03ALL	0	14G	G11_016	TO->FROM	HAYS PLANT - SOUTH HAYS 115KV CKT 1	99	0.0336	137.1664	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03G11_016	0	14G	G11_016	TO->FROM	HAYS PLANT - SOUTH HAYS 115KV CKT 1	99	0.03371	121.9817	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	3	0	14G	G11_016	TO->FROM	HAYS PLANT - SOUTH HAYS 115KV CKT 1	99	0.03372	118.6562	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03ALL	0	14G	G11_016	FROM->TO	HAYS PLANT - VINE STREET 115KV CKT 1	88	0.0336	131.2035	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03G11_016	0	14G	G11_016	FROM->TO	HAYS PLANT - VINE STREET 115KV CKT 1	88	0.03371	114.1066	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	3	0	14G	G11_016	FROM->TO	HAYS PLANT - VINE STREET 115KV CKT 1	88	0.03372	110.3543	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	KNOLL - N HAYS3 115.00 115KV CKT 1	88	0.0336	117.5463	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03G11_016	0	14G	G11_016	TO->FROM	KNOLL - N HAYS3 115.00 115KV CKT 1	88	0.03371	100.47	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	3	0	14G	G11_016	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.0494	134.531	DBL-IRON-CLR
FDNS	03G11_016	0	14G	G11_016	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.0494	115.688	DBL-SPRVL-CL
FDNS	3	0	14G	G11_016	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.0494	107.3414	DBL-SPRVL-CL
FDNS	03G11_016	0	14G	G11_016	TO->FROM	MULLERGREIN - SPEARVILLE 230KV CKT 1	398	0.13773	120.8968	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	3	0	14G	G11_016	TO->FROM	MULLERGREIN - SPEARVILLE 230KV CKT 1	398	0.13778	113.5448	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL	0	14G	G11_016	TO->FROM	MULLERGREIN - SPEARVILLE 230KV CKT 1	398	0.10778	112.0896	POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1
FDNS	3	0	14G	G11_016	TO->FROM	MULLERGREIN - SPEARVILLE 230KV CKT 1	398	0.16164	110.5621	DBL-IRON-CLR
FDNS	03G11_016	0	14G	G11_016	TO->FROM	MULLERGREIN - SPEARVILLE 230KV CKT 1	398	0.11078	106.6574	DBL-WICH-THI
FDNS	03G11_016	0	14G	G11_016	TO->FROM	MULLERGREIN - SPEARVILLE 230KV CKT 1	398	0.13773	102.6936	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	3	0	14G	G11_016	TO->FROM	MULLERGREIN - SPEARVILLE 230KV CKT 1	398	0.11083	100.7172	DBL-WICH-THI
FDNS	03ALL	0	14G	G11_016	TO->FROM	MULLERGREIN - SPEARVILLE 230KV CKT 1	398	0.09042	100.6331	MINGO - SETAB 345KV CKT 1
FDNS	03G11_016	0	14G	G11_016	TO->FROM	MULLERGREIN - SPEARVILLE 230KV CKT 1	398	0.1616	99.8	DBL-SPRVL-CL
FDNS	03ALL	0	14G	G11_016	TO->FROM	N HAYS3 115.00 - VINE STREET 115KV CKT 1	99	0.0336	109.2629	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FNSL-Blown up	3	0	14G	G11_016	-	Non-converged Contingency	-	0.45155	-	DBL-THIS-CLR
FNSL-Blown up	03ALL	0	14G	G11_016	-	Non-converged Contingency	-	0.45019	-	DBL-IRON-CLR

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FNSL-Blown up	03ALL	0	14G	G11_016	-	Non-converged Contingency	-	0.45019	-	DBL-SPRVL-CL	
FNSL-Blown up	03ALL	0	14G	G11_016	-	Non-converged Contingency	-	0.45019	-	DBL-THIS-CLR	
FNSL-Blown up	03ALL	0	14G	G11_016	-	Non-converged Contingency	-	0.27419	-	DBL-WICH-THI	
FNSL-Blown up	03G11_016	0	14G	G11_016	-	Non-converged Contingency	-	0.45143	-	DBL-IRON-CLR	
FNSL-Blown up	03G11_016	0	14G	G11_016	-	Non-converged Contingency	-	0.45143	-	DBL-THIS-CLR	
FDNS	01ALL	0	14G	G11_016	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.04123	102.794	DBL-THIS-WWR	
FDNS		3	0	14G	G11_016	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03739	118.4261	DBL-IRON-CLR
FDNS	04ALL	0	14G	G11_016	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03751	116.8799	DBL-THIS-CLR	
FDNS	04ALL	0	14G	G11_016	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03751	109.2312	DBL-IRON-CLR	
FDNS		4	0	14G	G11_016	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03753	103.2055	DBL-THIS-CLR
FDNS	03G11_016	0	14G	G11_016	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03737	101.8999	DBL-SPRVL-CL	
FDNS	04ALL	0	14G	G11_016	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03751	101.8668	DBL-SPRVL-CL	
FDNS	04ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.11298	116.8432	DBL-THIS-CLR	
FDNS	03G11_016	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.08109	115.4762	DBL-WICH-THI	
FDNS	03ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07066	113.2969	CIRCLE - MULLERGREN 230KV CKT 1	
FDNS	04ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.11298	111.84	DBL-IRON-CLR	
FDNS		3	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.11263	111.6157	DBL-IRON-CLR
FDNS		3	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.08116	109.4862	DBL-WICH-THI
FDNS	04ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03362	108.107	POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1	
FDNS	04ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.11298	106.9683	DBL-SPRVL-CL	
FDNS	04ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.08151	106.648	DBL-WICH-THI	
FDNS	03ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.06304	104.2053	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	03ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.06304	104.2053	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS	03G11_016	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07884	102.4127	AXTELL - POST ROCK 345KV CKT 1	
FDNS	03G11_016	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.11257	102.3446	DBL-SPRVL-CL	
FDNS	04ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07922	102.332	AXTELL - POST ROCK 345KV CKT 1	
FDNS	03ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.06104	100.9796	AXTELL - PAULINE 345KV CKT 1	
FDNS	03ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.05757	100.703	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2	
FDNS	03ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.05757	100.7023	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3	
FDNS	03ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.05952	100.4454	GRAND ISLAND - SWEETWATER 345KV CKT 1	
FDNS	03ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.05757	100.4233	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1	
FDNS	03ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.05835	100	DBL-BVR-WWRD	
FDNS	03ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.05968	99.8	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	03ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.06047	99.7	MOORE - PAULINE 345KV CKT 1	
FDNS	03ALL	0	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.05757	99.5	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1	
FDNS	03ALL	2	14G	G11_016	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.04762	99.8	BENTON - WICHITA 345KV CKT 1	
FNSL	03ALL	2	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.10543	120.7977	DBL-IRON-CLR	
FDNS		3	2	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.10589	117.9935	DBL-THIS-CLR
FDNS	03G11_016	2	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.08903	115.2834	DBL-WICH-THI	
FDNS		3	2	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.0891	109.6434	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07155	108.6629	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	
FDNS	03G11_016	2	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.10584	102.6163	DBL-IRON-CLR	
FDNS	03ALL	2	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07078	101.1639	AXTELL - POST ROCK 345KV CKT 1	
FDNS	03ALL	2	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.10543	100.9951	DBL-SPRVL-CL	
FDNS	03ALL	2	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07155	100.9819	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1	
FDNS	03ALL	2	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06997	100.9786	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1	
FDNS	03ALL	2	14G	G11_016	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06997	100.9786	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2	
FDNS	03G11_016	2	14G	G11_016	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.05353	119.5512	DBL-WICH-THI	
FDNS		3	2	14G	G11_016	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.05357	113.6224	DBL-WICH-THI
FDNS	03G11_016	2	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05353	219.899	DBL-WICH-THI	
FDNS		3	2	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05357	209.5236	DBL-WICH-THI
FDNS	09ALL	2	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0549	100.7582	DBL-WICH-THI	
FDNS		9	2	14G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05494	99.6	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05108	172.8268	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	03G11_016	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05853	162.4575	DBL-WICH-THI	
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05108	160.6288	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS		3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05855	152.9735	DBL-WICH-THI
FDNS	03G11_016	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05129	148.3587	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS		3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05131	142.7618	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04018	140.3486	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1	
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04214	137.81	IODINE - WOODWARD EHV 138KV CKT 1	
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04214	136.0836	DEWEY - IODINE 138KV CKT 1	
FDNS	03G11_016	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05129	136.0064	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	135.3819	GEN520997 1-MORLND2	
FDNS		3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05131	130.3082	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04107	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 1	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04107	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	129.0801	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03666	126.9997	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03971	126.9983	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04018	126.8514	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	126.4388	BASE CASE
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.037	124.8549	SPP-SWPS-03
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03698	124.7372	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03698	124.6975	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04151	124.4786	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03698	123.9346	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04034	122.1128	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03698	121.5078	SPP-SWPS-02A
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03611	121.2965	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0364	121.0796	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03588	120.3734	GEN520997 1-MORLND2
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03917	120.0462	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04151	119.9158	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03917	119.8413	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0351	119.2676	RENFROW4 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03847	119.2017	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04231	118.6326	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03794	118.3679	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03666	117.9566	SPP-AEPW-32
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03716	117.8226	MINGO - SETAB 345KV CKT 1
FDNS	03ALL	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04035	117.744	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03971	117.6146	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03847	117.4292	SPP-SWPS-04
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03847	117.3087	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03753	116.9412	MINGO - RED WILLOW 345KV CKT 1
FDNS	03ALL	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03589	116.7216	GEN520997 1-MORLND2
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04231	116.6663	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03698	115.9103	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03698	115.8725	SPP-SWPS-02
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03698	115.867	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03674	115.5472	SPP-SWPS-01
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03759	115.5094	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0351	115.487	SAND RDG_138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03666	115.2876	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	115.1958	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03593	115.0158	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03663	115.0003	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	114.3959	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03693	114.287	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03682	114.1293	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03681	114.045	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03588	113.969	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	113.8484	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03627	113.8214	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	03ALL	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04232	113.8039	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	113.4433	GEN514806 1-SOONER UNIT 2
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03699	113.2797	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03618	113.1855	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03638	113.162	FLATRDG3 - HARPER 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03862	113.0743	DBL-HTCH-BVR
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03625	113.0242	SPP-MKEC-08
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03663	112.6675	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0366	112.5959	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03638	112.5058	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0363	112.4511	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03643	112.2746	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03638	112.2052	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03638	112.2009	SPP-MKEC-03B
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03681	112.1649	BENTON - ROSE HILL 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03638	112.1641	SPP-MKEC-05

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03638	112.1598	SPP-MKEC-03A
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03624	112.0827	MOORE - PAULINE 345KV CKT 1
FDNS		3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04232	112.073	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03638	112.0386	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	111.9995	GEN520947 1-HUGO1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	111.988	GEN515225 1-MUSKOGEE 5G
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	111.9783	GEN515226 1-MUSKOGEE 6G
FDNS		3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03589	110.3004	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	109.9108	NC1_GEN-NEBRASKA CITY 1
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04124	108.8763	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04124	108.8763	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03684	108.5933	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04034	108.5019	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.9478	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.9478	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.9478	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.9478	GEN560224 1-G07-62-4 0.6900
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03588	107.8825	BASE CASE
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.784	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03619	107.7785	IODINE - MOORELAND 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03547	107.7362	LYDIA - VALLIANT 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03546	107.7337	SPP-AEPW-01
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.6833	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.6824	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.6703	GEN560121 1-G08-47 0.5750
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.6304	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.6248	GEN515365 1-CENT 21 34.500
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03504	107.5373	DOVER - TWIN LAKES 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0323	107.4899	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03229	107.4837	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03548	107.4484	KNOBHILL (KNOBHILA) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03504	107.4333	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.396	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.3959	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.2702	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.2461	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.2384	GEN539785 1-ENSNW 1 0.5750
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.2265	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.2051	GEN531459 2-S2 GENERATOR
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.1653	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.035	107.1636	MATHWSN7 345.00 - WOODRING 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.1339	GEN515393 1-OGWIND2G
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.128	GEN526334 1-JONES 4 116.500
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03718	107.0795	SPP-SWPS-03
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.0445	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.0445	GEN562026 1-G11_019_3 0.6900
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03716	107.0412	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03716	107.0288	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.0243	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	107.005	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03489	106.9716	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03508	106.9489	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03435	106.9355	SPP-SWPS-05
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.9089	GEN560696 1-G11-008-4 0.6900
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.8913	GEN645001 1-FORT CALHOUN 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03435	106.8565	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.8361	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.8148	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.7561	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03508	106.7298	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.035	106.713	CIMARRON - MATHWSN7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.6583	GEN542962 2-IATAN UNIT #2
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.6473	GEN659111 2-LELAND OLDS UNIT2
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.5948	GEN645011 1-NEBRASKA CITY 1
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04165	106.4838	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.4527	GEN659103 1-ANTELOPE VALLEY UNIT1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.4527	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.4106	GEN526331 1-JONES GEN #1 22 KV
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.2382	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.2378	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.2074	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	03G11_016	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03716	106.1959	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.0987	GEN560695 1-G11-008-3 0.6900
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.021	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.0123	GEN526332 1-JONES GEN #2 21 KV
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	106.0014	GEN542902 1-GPW_G1 0.6900
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0351	105.9606	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	105.8824	GEN560694 1-G11-008-2 0.6900
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	105.8687	GEN645012 2-NEBRASKA CITY 2
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	105.8022	GEN560514 1-G04_014 0.6900
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	105.5261	GEN640009 1-COOPER NUCLEAR STATION
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03508	105.5131	BYRON_138 138.00 - SANDY_CN 138138.00 138KV CKT 1
FDNS	03G11_016	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03624	105.4048	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	105.3724	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	105.3523	GEN539807 1-G05-12 0.6900
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	105.169	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	105.082	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	105.029	GEN560238 1-G10-09 0.6900
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	104.6932	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	104.693	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	104.6785	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	104.6111	GEN560659 1-G07-38 0.6900
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	104.5684	GEN562035 1-G11_016_3 0.6900
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	104.5501	GEN560432 1-G08-124 0.6900
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	104.533	GEN560693 1-G11-008-1 0.6900
FDNS	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03685	104.4333	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	104.4133	GEN560549 1-G06-06 0.6900
FDNS	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04125	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04125	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03G11_016	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03716	104.1571	SPP-SWPS-02A
FDNS	03G11_016	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03656	104.1532	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04035	104.1408	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03508	104.1072	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03438	104.1048	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	104.0766	GEN560329 1-G10-45 0.6900
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	104.0657	GEN531503 1-CIMRRN 1 34.500
FDNS	03G11_016	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03522	103.8262	RENFROW4 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS	03G11_016	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03987	103.7889	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03508	103.7582	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03438	103.7241	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03589	103.4279	BASE CASE
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03438	103.0744	DEWEY - SOUTHARD 138KV CKT 1
FDNS	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03719	102.9807	SPP-SWPS-03
FDNS	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03717	102.9398	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03717	102.9342	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	102.7291	GEN523117 1-BUFF_DUNES210.6900
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03391	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03391	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03G11_016	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03993	102.5852	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03G11_016	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03993	102.4953	BORDER 7345.00 - TUO INTERCHANGE 345KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0317	102.4598	BEAVER CO 345.00 - BUCKNER7 345.00 345KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	102.4369	GEN562032 1-G11_017_3 0.6900
FDNS	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04165	102.1895	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03717	102.1802	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0356	101.9373	MOORELAND - TALOGA 138KV CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	101.8124	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	101.7384	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS	03G11_016	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04165	101.5483	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03624	101.5448	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	101.3654	GEN525561 1-TOLK GEN #1 24 KV
FDNS	03ALL	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	101.2021	GEN525562 1-TOLK GEN #2 24 KV

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03861	101.0973	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03357	100.712	DOVER SW - OKEENE 138KV CKT 1
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03684	100.4479	SPP-AEPW-32
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03273	100.161	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS		3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03657	100.1259	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS		3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03522	100.0978	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS		3	2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03717	99.9	SPP-SWPS-02A
FDNS	03ALL		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03574	99.9	GEN531447 1-HOLCOMB GENERATOR
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03522	99.9	SAND RDG 138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS	03G11_016		2	14G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03861	99.5	SPP-SWPS-04
FDNS		3	2	14G	G11_016	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.03868	158.3655	DBL-THIS-CLR
FNSL	03ALL		2	14G	G11_016	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.03853	157.5904	DBL-IRON-CLR
FDNS	03G11_016		2	14G	G11_016	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.03869	130.463	DBL-IRON-CLR
FDNS	03ALL		2	14G	G11_016	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.03853	127.1743	DBL-SPRVL-CL
FDNS		3	2	14G	G11_016	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.03868	124.1276	DBL-IRON-CLR
FDNS	03G11_016		2	14G	G11_016	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.03869	110.3855	DBL-SPRVL-CL
FDNS		3	2	14G	G11_016	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.03868	104.7349	DBL-SPRVL-CL
FDNS		3	2	14G	G11_016	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.03868	146.9269	DBL-THIS-CLR
FNSL	03ALL		2	14G	G11_016	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.03853	146.2213	DBL-IRON-CLR
FDNS	03G11_016		2	14G	G11_016	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.03869	119.5747	DBL-IRON-CLR
FDNS	03ALL		2	14G	G11_016	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.03853	116.2947	DBL-SPRVL-CL
FDNS		3	2	14G	G11_016	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.03868	113.2993	DBL-IRON-CLR
FDNS	03G11_016		2	14G	G11_016	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.03869	99.6	DBL-SPRVL-CL
FDNS	03G11_016		2	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05353	230.1776	DBL-WICH-THI
FDNS		3	2	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05357	219.9313	DBL-WICH-THI
FDNS	09ALL		2	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0549	111.2974	DBL-WICH-THI
FDNS		9	2	14G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05494	110.1004	DBL-WICH-THI
FDNS	03ALL		2	14G	G11_016	TO->FROM	HAYS PLANT - SOUTH HAYS 115KV CKT 1	99	0.03108	126.0327	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03G11_016		2	14G	G11_016	TO->FROM	HAYS PLANT - SOUTH HAYS 115KV CKT 1	99	0.03117	113.8463	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS		3	2	14G	G11_016	TO->FROM	HAYS PLANT - SOUTH HAYS 115KV CKT 1	99	0.03118	111.288	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03ALL		2	14G	G11_016	FROM->TO	HAYS PLANT - VINE STREET 115KV CKT 1	88	0.03108	118.6765	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03G11_016		2	14G	G11_016	FROM->TO	HAYS PLANT - VINE STREET 115KV CKT 1	88	0.03117	104.9394	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS		3	2	14G	G11_016	FROM->TO	HAYS PLANT - VINE STREET 115KV CKT 1	88	0.03118	102.0988	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	KNOLL - N HAYS3 115.00 115KV CKT 1	88	0.03108	105.069	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS		3	2	14G	G11_016	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.03868	141.7477	DBL-THIS-CLR
FNSL	03ALL		2	14G	G11_016	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.03853	140.9714	DBL-IRON-CLR
FDNS	03G11_016		2	14G	G11_016	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.03869	114.4775	DBL-IRON-CLR
FDNS	03ALL		2	14G	G11_016	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.03853	111.1014	DBL-SPRVL-CL
FDNS		3	2	14G	G11_016	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.03868	108.2083	DBL-IRON-CLR
FDNS	03ALL		2	14G	G11_016	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.12604	131.9195	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.13312	114.9839	DBL-IRON-CLR
FDNS		3	2	14G	G11_016	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.13352	113.1846	DBL-THIS-CLR
FDNS	03G11_016		2	14G	G11_016	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.12646	110.2926	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.12604	108.3648	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS		3	2	14G	G11_016	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.12649	104.0607	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	G11_016	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.09918	101.3946	POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1
FDNS	03G11_016		2	14G	G11_016	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.10382	99.7	DBL-WICH-THI
FNSL-Blown up	03ALL		2	14G	G11_016	-	Non-converged Contingency	-	0.39503	-	DBL-THIS-CLR
FNSL-Blown up	03ALL		2	14G	G11_016	-	Non-converged Contingency	-	0.27127	-	DBL-WICH-THI
FNSL-Blown up	03G11_016		2	14G	G11_016	-	Non-converged Contingency	-	0.39598	-	DBL-THIS-CLR
FNSL	03ALL		2	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.09123	115.3092	DBL-IRON-CLR
FDNS		3	2	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.09162	112.5026	DBL-THIS-CLR
FDNS	03ALL		2	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07183	110.6659	AXTELL - POST ROCK 345KV CKT 1
FDNS	03G11_016		2	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07556	108.9727	DBL-WICH-THI
FDNS	03ALL		2	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.06416	103.8977	CIRCLE - MULLERGREN 230KV CKT 1
FDNS		3	2	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07562	103.695	DBL-WICH-THI
FDNS	03G11_016		2	14G	G11_016	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.09157	100.0583	DBL-IRON-CLR
FDNS	03G11_017		0	14G	G11_017	FROM->TO	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1	717.1	0.37597	103.9252	DBL-IRON-CLR
FDNS		3	0	14G	G11_017	FROM->TO	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1	717.1	0.37596	99.6	DBL-IRON-CLR
FDNS	03ALL		0	14G	G11_017	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.04769	101.8867	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.08602	119.818	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03G11_017		0	14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.12846	119.7213	DBL-IRON-CLR
FDNS	03G11_017		0	14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.09582	118.8239	DBL-WICH-THI
FDNS		3	0	14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.09583	116.3855	DBL-WICH-THI
FDNS		3	0	14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.12848	116.3465	DBL-IRON-CLR

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.08602	111.1413	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07531	107.9147	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07531	107.9147	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07325	103.8519	ST JOHN - ST_JOHN 115KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07746	103.2496	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07402	102.9098	SPP-MKEC-06
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07402	102.8723	SEWARD - ST JOHN 115KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07171	102.4869	MINGO - RED WILLOW 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07149	102.0044	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06997	101.7766	DBL-BVR-WWRD
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07325	100.8111	HUNTSVILLE - ST_JOHN 115KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07149	100.7855	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07487	100.6725	CLARKCOUNTY7345.00 - IRONWOOD7 345.00 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07325	100.5905	MIDW-CATB05
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07487	100.4805	CLARKCOUNTY7345.00 - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06914	100.4685	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07325	100.2451	HUNTSVILLE - HUTCHINSON ENERGY CENTER 115KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07077	100.1864	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07187	100	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06914	99.8	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06914	99.8	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07144	99.7	GREAT BEND TAP - MULLERGREN 115KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07144	99.7	GREAT BEND TAP - SEWARD 115KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06965	99.6	MINGO - SETAB 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.06914	99.5	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	03G11_017		0 14G	G11_017	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04923	118.0375	DBL-WICH-THI
FDNS		3	0 14G	G11_017	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04924	115.9877	DBL-WICH-THI
FDNS	02ALL		0 14G	G11_017	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04898	102.6753	DBL-WICH-THI
FDNS	03G11_017		0 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04923	217.3197	DBL-WICH-THI
FDNS		3	0 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04924	213.7155	DBL-WICH-THI
FDNS	02ALL		0 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04898	190.5343	DBL-WICH-THI
FDNS	01ALL		0 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04955	178.5386	DBL-WICH-THI
FDNS		2	0 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04922	165.7243	DBL-WICH-THI
FDNS		1	0 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0496	157.6022	DBL-WICH-THI
FDNS	04ALL		0 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04949	128.2351	DBL-WICH-THI
FDNS	06ALL		0 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04939	121.5982	DBL-WICH-THI
FDNS		4	0 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04956	119.9346	DBL-WICH-THI
FDNS		6	0 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04942	117.0811	DBL-WICH-THI
FDNS	09ALL		0 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04962	100.7607	DBL-WICH-THI
FDNS		9	0 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04965	99.6	DBL-WICH-THI
FDNS	01ALL		0 14G	G11_017	TO->FROM	FLATRDG3 - THISTLE4 138.00 138KV CKT 1	286	0.04253	100.1933	DBL-WICH-THI
FDNS	01ALL		0 14G	G11_017	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04429	118.9423	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0 14G	G11_017	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.043	102.466	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 14G	G11_017	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.05123	102.2764	DBL-WICH-THI
FDNS	02ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.043	183.6191	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0502	176.049	DBL-WICH-THI
FDNS	02ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.043	172.22	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04429	170.3555	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04293	163.2011	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS		2	0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04313	152.4117	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03G11_017		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05046	151.8915	DBL-WICH-THI
FDNS	03ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04293	150.4894	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05046	148.3517	DBL-WICH-THI
FDNS	02ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03007	148.208	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0353	145.84	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0353	144.3366	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0302	143.8222	SPP-SWPS-03
FDNS	02ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03019	143.5601	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03019	143.5599	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05038	142.2997	DBL-WICH-THI
FDNS	02ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03019	142.2793	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		1	0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04406	142.2136	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS		2	0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04313	139.9773	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03019	139.1049	SPP-SWPS-02A
FDNS	01ALL		0 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05123	138.6221	DBL-WICH-THI

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	03G11_017	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04319	137.0477	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS		3	0	14G	G11_017	TO->FROM	153	0.0432	135.2056	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03007	135.1133	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03361	134.985	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03007	134.9439	SPP-AEPW-32
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03019	133.4836	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03019	133.4786	SPP-SWPS-02
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03019	133.4757	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03007	132.1212	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03016	132.1145	SPP-SWPS-01
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03357	131.916	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03471	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03471	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03525	129.0896	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03525	127.3742	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03082	124.8118	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03256	124.5827	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03G11_017	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04319	124.1425	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		2	0	14G	G11_017	TO->FROM	153	0.0337	123.8168	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03467	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03467	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03626	123.131	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03256	122.802	SPP-SWPS-04
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03256	122.7854	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS		3	0	14G	G11_017	TO->FROM	153	0.0432	122.4568	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03546	122.2617	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03099	122.1212	MINGO - SETAB 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03006	122.0571	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03346	121.8925	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03346	121.5425	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03138	120.8622	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03028	120.684	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0307	120.617	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03094	120.5246	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03039	120.4514	CIMARRON - NORTHWEST 345KV CKT 1
FDNS		2	0	14G	G11_017	TO->FROM	153	0.03539	120.3888	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03172	119.9951	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03061	119.7852	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03029	119.7075	SPP-MKEC-08
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03263	119.5288	AXTELL - POST ROCK 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03103	119.3931	SMOKYH6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03051	119.3339	FLATRDG3 - HARPER 138KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03039	119.2566	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	119.2094	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03061	118.9188	FARGO JCT - FT SUPPLY 69KV CKT 1
FDNS		2	0	14G	G11_017	TO->FROM	153	0.03539	118.6589	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03357	118.6018	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03614	117.776	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		1	0	14G	G11_017	TO->FROM	153	0.05113	117.7097	DBL-WICH-THI
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03027	116.4118	SPP-SWPS-03
FDNS		2	0	14G	G11_017	TO->FROM	153	0.03033	116.3194	SPP-SWPS-03
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03026	116.1909	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03026	116.1616	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_017	TO->FROM	153	0.03033	116.0721	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_017	TO->FROM	153	0.03033	116.0624	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03026	115.1561	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		2	0	14G	G11_017	TO->FROM	153	0.03033	115.0646	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03034	114.6119	IODINE - MOORELAND 138KV CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03076	114.5656	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03451	114.4161	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03614	113.6027	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0307	113.2099	GEN520997 1-MORLND2
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0333	113.2093	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03009	113.2015	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0333	112.9141	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03033	112.6578	SPP-SWPS-02A
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03026	112.573	SPP-SWPS-02A
FDNS	01ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03007	112.1942	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03G11_017		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03376	112.0929	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03243	111.9801	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03093	111.7171	MINGO - SETAB 345KV CKT 1
FDNS	03G11_017		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03004	111.6814	GEN520997 1-MORLND2
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03132	110.9013	MINGO - RED WILLOW 345KV CKT 1
FDNS		3	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03376	110.695	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS		3	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03004	110.5487	GEN520997 1-MORLND2
FDNS		2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0337	110.5068	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03243	110.2642	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03243	110.0802	SPP-SWPS-04
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	109.8656	SPP-AEPW-32
FDNS		2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03018	109.7937	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0307	108.4444	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03099	108.23	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03G11_017		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03545	108.1867	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03167	108.0776	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03023	107.8931	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03067	107.8325	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03068	107.7264	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03024	107.628	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03097	107.4894	CIRCLE - MULLERGREN 230KV CKT 1
FDNS		2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03021	107.4107	SPP-AEPW-32
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03026	107.2887	SPP-SWPS-02
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03026	107.2835	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03026	107.2265	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03015	107.1671	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0307	107.1278	GEN520998 1-MORLND3
FDNS		2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03033	106.9384	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS		2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03033	106.9038	SPP-SWPS-02
FDNS		2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03033	106.8963	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS		3	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03545	106.7211	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03G11_017		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03545	106.4656	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03034	106.4488	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03036	106.289	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03047	106.1515	FLATRDG3 - HARPER 138KV CKT 1
FDNS		2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03481	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03481	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03627	106.0575	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03099	105.9641	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03026	105.6032	SPP-MKEC-08
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03091	105.5608	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03052	105.4984	AXTELL - PAULINE 345KV CKT 1
FDNS	03G11_017		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03004	105.3306	GEN520998 1-MORLND3
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03093	105.2393	BENTON - ROSE HILL 345KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03047	105.0996	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03058	105.0078	FARGO JCT - WOODWARD 69KV CKT 1
FDNS		3	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03545	105.0006	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03045	104.9628	MOORE - PAULINE 345KV CKT 1
FDNS		2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03031	104.9462	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03052	104.9454	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS		2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03021	104.9062	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03047	104.8119	SPP-MKEC-03B
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03047	104.7607	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03047	104.7465	SPP-MKEC-03A
FDNS	03ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03047	104.6971	SPP-MKEC-05
FDNS		2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03087	104.5488	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03627	104.4125	DEWEY - IODINE 138KV CKT 1
FDNS		3	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03004	104.1841	GEN520998 1-MORLND3
FDNS	01ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04429	104.0335	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03174	103.9327	DEWEY - TALOGA 138KV CKT 1
FDNS	06ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04219	103.6571	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0307	103.4526	BASE CASE

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0341	102.9651	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03114	102.7939	FT SUPPLY - IODINE 138KV CKT 1
FDNS	01ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0341	102.7812	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03011	102.3731	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	01ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03451	101.8689	WOODWARD - WOODWARD 69KV CKT 1
FDNS	2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0363	101.8316	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	01ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03556	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03556	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	1	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03058	101.3079	GEN520997 1-MORLND2
FDNS	01ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03114	101.2211	IODINE - MOORELAND 138KV CKT 1
FDNS	01ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03115	100.993	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0326	100.7059	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0303	100.3852	IODINE - MOORELAND 138KV CKT 1
FDNS	03G11_017	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03487	99.9	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03G11_017	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03487	99.9	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03348	99.5	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2	0	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03035	99.5	WOODRNG (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03G11_017	0	14G	G11_017	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.04484	154.8551	DBL-IRON-CLR
FDNS	3	0	14G	G11_017	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.04484	150.928	DBL-IRON-CLR
FDNS	03G11_017	0	14G	G11_017	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.04484	126.0253	DBL-SPRVL-CL
FDNS	3	0	14G	G11_017	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.04484	123.2897	DBL-SPRVL-CL
FDNS	03G11_017	0	14G	G11_017	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.04484	143.4997	DBL-IRON-CLR
FDNS	3	0	14G	G11_017	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.04484	139.6867	DBL-IRON-CLR
FDNS	03G11_017	0	14G	G11_017	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.04484	115.1718	DBL-SPRVL-CL
FDNS	3	0	14G	G11_017	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.04484	112.461	DBL-SPRVL-CL
FDNS	03G11_017	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04923	227.5267	DBL-WICH-THI
FDNS	3	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04924	223.9645	DBL-WICH-THI
FDNS	02ALL	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04898	200.8338	DBL-WICH-THI
FDNS	01ALL	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04955	188.9328	DBL-WICH-THI
FDNS	2	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04922	176.1806	DBL-WICH-THI
FDNS	1	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0496	168.0853	DBL-WICH-THI
FDNS	04ALL	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04949	138.7306	DBL-WICH-THI
FDNS	06ALL	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04939	132.2025	DBL-WICH-THI
FDNS	4	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04956	130.4421	DBL-WICH-THI
FDNS	6	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04942	127.685	DBL-WICH-THI
FDNS	09ALL	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04962	111.2997	DBL-WICH-THI
FDNS	9	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04965	110.1027	DBL-WICH-THI
FDNS	13	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04971	106.7686	DBL-WICH-THI
FDNS	13ALL	0	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04973	106.1697	DBL-WICH-THI
FDNS	03ALL	0	14G	G11_017	TO->FROM	HAYS PLANT - SOUTH HAYS 115KV CKT 1	99	0.04435	137.1664	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03G11_017	0	14G	G11_017	TO->FROM	HAYS PLANT - SOUTH HAYS 115KV CKT 1	99	0.04448	120.3779	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	3	0	14G	G11_017	TO->FROM	HAYS PLANT - SOUTH HAYS 115KV CKT 1	99	0.04447	118.6562	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03ALL	0	14G	G11_017	FROM->TO	HAYS PLANT - VINE STREET 115KV CKT 1	88	0.04435	131.2035	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03G11_017	0	14G	G11_017	FROM->TO	HAYS PLANT - VINE STREET 115KV CKT 1	88	0.04448	112.3386	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	3	0	14G	G11_017	FROM->TO	HAYS PLANT - VINE STREET 115KV CKT 1	88	0.04447	110.3543	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	KNOLL - N HAYS3 115.00 115KV CKT 1	88	0.04435	117.5463	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03G11_017	0	14G	G11_017	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.04484	138.3141	DBL-IRON-CLR
FDNS	3	0	14G	G11_017	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.04484	134.531	DBL-IRON-CLR
FDNS	03G11_017	0	14G	G11_017	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.04484	110.0401	DBL-SPRVL-CL
FDNS	3	0	14G	G11_017	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.04484	107.3414	DBL-SPRVL-CL
FDNS	03G11_017	0	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.13778	115.7227	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	3	0	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.13778	113.5448	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03G11_017	0	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.13088	113.3351	DBL-IRON-CLR
FDNS	03ALL	0	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.10057	112.0896	POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1
FDNS	3	0	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.13088	110.5621	DBL-IRON-CLR
FDNS	03G11_017	0	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.08385	102.4806	DBL-WICH-THI
FDNS	3	0	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.08385	100.7172	DBL-WICH-THI
FDNS	03ALL	0	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.06463	100.6331	MINGO - SETAB 345KV CKT 1
FDNS	03ALL	0	14G	G11_017	TO->FROM	N HAYS3 115.00 - VINE STREET 115KV CKT 1	99	0.04435	109.2629	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FNSL-Blown up	3	0	14G	G11_017	-	Non-converged Contingency	-	0.41323	-	DBL-THIS-CLR
FNSL-Blown up	03ALL	0	14G	G11_017	-	Non-converged Contingency	-	0.41187	-	DBL-IRON-CLR
FNSL-Blown up	03ALL	0	14G	G11_017	-	Non-converged Contingency	-	0.41187	-	DBL-SPRVL-CL
FNSL-Blown up	03ALL	0	14G	G11_017	-	Non-converged Contingency	-	0.41187	-	DBL-THIS-CLR
FNSL-Blown up	03ALL	0	14G	G11_017	-	Non-converged Contingency	-	0.24505	-	DBL-WICH-THI
FNSL-Blown up	03G11_017	0	14G	G11_017	-	Non-converged Contingency	-	0.41322	-	DBL-THIS-CLR

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 14G	G11_017	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.03762	102.794	DBL-THIS-WWR
FDNS	03G11_017		0 14G	G11_017	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03783	121.9039	DBL-IRON-CLR
FDNS		3	0 14G	G11_017	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03783	118.4261	DBL-IRON-CLR
FDNS	04ALL		0 14G	G11_017	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03795	116.8799	DBL-THIS-CLR
FDNS	04ALL		0 14G	G11_017	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03795	109.2312	DBL-IRON-CLR
FDNS		4	0 14G	G11_017	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03797	103.2055	DBL-THIS-CLR
FDNS	04ALL		0 14G	G11_017	FROM->TO	SEWARD - ST JOHN 115KV CKT 1	87.6	0.03795	101.8668	DBL-SPRVL-CL
FDNS	04ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.12519	116.8432	DBL-THIS-CLR
FDNS	03G11_017		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.12484	114.4171	DBL-IRON-CLR
FDNS	03ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.08817	113.2969	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	03G11_017		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.09555	111.8673	DBL-WICH-THI
FDNS	04ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.12519	111.84	DBL-IRON-CLR
FDNS		3	0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.12485	111.6157	DBL-IRON-CLR
FDNS		3	0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.09556	109.4862	DBL-WICH-THI
FDNS	04ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03199	108.107	POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1
FDNS	04ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.12519	106.9683	DBL-SPRVL-CL
FDNS	04ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.09591	106.648	DBL-WICH-THI
FDNS	03ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07932	104.2053	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07932	104.2053	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	04ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.10219	102.332	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07853	100.9796	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07443	100.703	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	03ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07443	100.7023	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	03ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07657	100.4454	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07443	100.4233	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	03ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07512	100	DBL-BVR-WWRD
FDNS	03ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07642	99.8	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.0778	99.7	MOORE - PAULINE 345KV CKT 1
FDNS	03G11_017		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.10186	99.7	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL		0 14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.07443	99.5	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL		2 14G	G11_017	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.046	99.8	BENTON - WICHITA 345KV CKT 1
FNSL	03G11_017		2 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.10549	121.0514	DBL-THIS-CLR
FNSL	03ALL		2 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.10504	120.7977	DBL-IRON-CLR
FDNS		3	2 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.1055	117.9935	DBL-THIS-CLR
FDNS	03G11_017		2 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.08966	111.2286	DBL-WICH-THI
FDNS		3	2 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.08967	109.6434	DBL-WICH-THI
FDNS	03ALL		2 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07902	108.6629	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL		2 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07785	101.1639	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL		2 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.10504	100.9951	DBL-SPRVL-CL
FDNS	03ALL		2 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07902	100.9819	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL		2 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07272	100.9786	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1
FDNS	03ALL		2 14G	G11_017	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.07272	100.9786	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2
FDNS	03G11_017		2 14G	G11_017	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04834	115.5779	DBL-WICH-THI
FDNS		3	2 14G	G11_017	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04835	113.6224	DBL-WICH-THI
FDNS	03G11_017		2 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04834	212.9522	DBL-WICH-THI
FDNS		3	2 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04835	209.5236	DBL-WICH-THI
FDNS	09ALL		2 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04962	100.7582	DBL-WICH-THI
FDNS		9	2 14G	G11_017	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04965	99.6	DBL-WICH-THI
FNSL	03G11_017		2 14G	G11_017	TO->FROM	FLATRDG3 - MEDICINE LODGE 138KV CKT 1	136.7	0.04742	99.8	DBL-THIS-CLR
FDNS	03ALL		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04816	172.8268	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04816	160.6288	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03G11_017		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05414	156.1636	DBL-WICH-THI
FDNS		3	2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05414	152.9735	DBL-WICH-THI
FDNS	03G11_017		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04838	144.6469	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS		3	2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04839	142.7618	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03791	140.3486	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03977	137.81	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03977	136.0836	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	135.3819	GEN520997 1-MORLND2
FDNS	03G11_017		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04838	132.2903	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04839	130.3082	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03849	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03849	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	129.0801	GEN520998 1-MORLND3
FDNS	03ALL		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03447	126.9997	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL		2 14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03971	126.9983	G11-17T 345.00 - POST ROCK 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03791	126.8514	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	126.4388	BASE CASE
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03479	124.8549	SPP-SWPS-03
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03477	124.7372	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03477	124.6975	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03952	124.4786	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03477	123.9346	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03477	121.5078	SPP-SWPS-02A
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03421	121.2965	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03429	121.0796	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03711	120.0462	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03952	119.9158	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03711	119.8413	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03329	119.2676	RENFROWA 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03808	119.2576	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0364	119.2017	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03663	118.3679	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03447	117.9566	SPP-AEPW-32
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03387	117.9511	GEN520997 1-MORLND2
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03471	117.8226	MINGO - SETAB 345KV CKT 1
FDNS	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03808	117.744	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0364	117.4292	SPP-SWPS-04
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0364	117.3087	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03511	116.9412	MINGO - RED WILLOW 345KV CKT 1
FDNS	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03388	116.7216	GEN520997 1-MORLND2
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03477	115.9103	STATELINE INTERCHANGE - STLN-DEMAR6 230KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03477	115.8725	SPP-SWPS-02
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03477	115.867	STLN-DEMAR6 - SWEETWATER 230KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03455	115.5472	SPP-SWPS-01
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03551	115.5094	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03329	115.487	SAND RDG_138138.00 - WAKITA_138 138.00 138KV CKT 1
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03995	115.3913	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03447	115.2876	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	115.1958	GEN514805 1-SOONER UNIT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03396	115.0158	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03492	115.0003	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	114.3959	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03456	114.287	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03446	114.1293	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03487	114.045	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	113.8484	GEN520922 1-SLEEPING BEAR
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03423	113.8214	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03995	113.8039	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03995	113.6597	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	113.4433	GEN514806 1-SOONER UNIT 2
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03491	113.2797	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03422	113.1855	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03432	113.162	FLATRDG3 - HARPER 138KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03652	113.0743	DBL-HTCH-BVR
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03417	113.0242	SPP-MKEC-08
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03492	112.6675	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03454	112.5959	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03432	112.5058	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03441	112.4511	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03441	112.2746	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03432	112.2052	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03432	112.2009	SPP-MKEC-03B
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03477	112.1649	BENTON - ROSE HILL 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03432	112.1641	SPP-MKEC-05
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03432	112.1598	SPP-MKEC-03A
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03433	112.0827	MOORE - PAULINE 345KV CKT 1
FDNS	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03995	112.073	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03432	112.0386	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	111.9995	GEN520947 1-HUGO1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	111.988	GEN515225 1-MUSKOGEE 5G

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	111.9783	GEN515226 1-MUSKOGEE 6G
FDNS	03G11_017		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03387	111.5425	GEN520998 1-MORLND3
FDNS		3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03388	110.3004	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	109.9108	NC1_GEN-NEBRASKA CITY 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.9478	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.9478	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.9478	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.9478	GEN560224 1-G07-62-4 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.784	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03417	107.7785	IODINE - MOORELAND 138KV CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03348	107.7362	LYDIA - VALLIANT 345KV CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	107.7337	SPP-AEPW-01
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.6833	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.6824	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.6703	GEN560121 1-G08-47 0.5750
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.6304	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.6248	GEN515365 1-CENT 21 34.500
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03306	107.5373	DOVER - TWIN LAKES 138KV CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03039	107.4899	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03038	107.4837	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03348	107.4484	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03306	107.4333	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.396	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.3959	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.2702	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.2461	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.2384	GEN539785 1-ENSGW 1 0.5750
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.2265	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.2051	GEN531459 2-S2 GENERATOR
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.1653	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03297	107.1636	MATHWSN7 345.00 - WOODRING 345KV CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.1339	GEN515393 1-OGEWND2G
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.128	GEN526334 1-JONES 4 116.500
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.0445	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.0445	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.0243	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	107.005	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03293	106.9716	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03312	106.9489	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03237	106.9355	SPP-SWPS-05
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.9089	GEN560696 1-G11-008-4 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.8913	GEN645001 1-FORT CALHOUN 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03237	106.8565	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.8361	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.8148	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.7561	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03312	106.7298	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03297	106.713	CIMARRON - MATHWSN7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.6583	GEN542962 2-IATAN UNIT #2
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.6473	GEN659111 2-LELAND OLDS UNIT2
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.5948	GEN645011 1-NEBRASKA CITY 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.4527	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.4527	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.4106	GEN526331 1-JONES GEN #1 22 KV
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.2382	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.2378	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.2074	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.0987	GEN560695 1-G11-008-3 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.0211	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.0123	GEN526332 1-JONES GEN #2 21 KV
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	106.0014	GEN542902 1-GPW_G1 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03315	105.9606	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	105.8824	GEN560694 1-G11-008-2 0.6900
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	105.8687	GEN645012 2-NEBRASKA CITY 2
FDNS	03G11_017		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03465	105.8433	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL		2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	105.8022	GEN560514 1-G04_014 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03867	105.7303	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03867	105.7303	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03808	105.6489	WOODWARD - WOODWARD 69KV CKT 1	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	105.5261	GEN640009 1-COOPER NUCLEAR STATION	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03321	105.5131	BYRON_138 138.00 - SANDY_CN 138138.00 138KV CKT 1	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	105.3724	GEN527903 1-HOBBS PLANT #3 (ST)	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	105.3523	GEN539807 1-G05-12 0.6900	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	105.169	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	105.082	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	105.029	GEN560238 1-G10-09 0.6900	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03387	104.9674	BASE CASE	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	104.6932	GEN523971 1-HARRINGTON GEN #1 24 KV	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	104.693	GEN523972 1-HARRINGTON GEN #2 24 KV	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	104.6785	GEN523973 1-HARRINGTON GEN #3 24 KV	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	104.6111	GEN560659 1-G07-38 0.6900	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	104.5684	GEN562035 1-G11_016_3 0.6900	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	104.5501	GEN560432 1-G08-124 0.6900	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	104.533	GEN560693 1-G11-008-1 0.6900	
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03466	104.4333	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	104.4133	GEN560549 1-G06-06 0.6900	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03498	104.3922	SPP-SWPS-03	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03496	104.3463	ELK CITY 230KV - SWEETWATER 230KV CKT 1	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03496	104.3407	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03867	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03867	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03808	104.1408	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03321	104.1072	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03245	104.1048	EL RENO - ROMAN NOSE 138KV CKT 1	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	104.0766	GEN560329 1-G10-45 0.6900	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	104.0657	GEN531503 1-CIMRRN 1 34.500	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03321	103.7582	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03245	103.7241	ROMAN NOSE - SOUTHARD 138KV CKT 1	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03966	103.7068	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03496	103.5071	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03388	103.4279	BASE CASE
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03245	103.0744	DEWEY - SOUTHARD 138KV CKT 1	
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03498	102.9807	SPP-SWPS-03
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03496	102.9398	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03496	102.9342	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03435	102.8902	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	102.7291	GEN523117 1-BUFF_DUNES210.6900	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03204	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03204	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	102.4369	GEN562032 1-G11_017_3 0.6900	
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03966	102.1895	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03496	102.1802	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03361	101.9373	MOORELAND - TALOGA 138KV CKT 1	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	101.8124	GEN659118 1-LARAMIE RIVER UNIT1	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03193	101.7384	MOREWOOD SW - RED HILLS WIND 138KV CKT 1	
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03435	101.5448	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03446	101.4925	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03341	101.4132	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	101.3654	GEN525561 1-TOLK GEN #1 24 KV	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03496	101.3435	SPP-SWPS-02A	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	101.2021	GEN525562 1-TOLK GEN #2 24 KV	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03988	100.7869	G11-17T 345.00 - POST ROCK 345KV CKT 1	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03172	100.712	DOVER SW - OKEENE 138KV CKT 1	
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03089	100.161	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1	
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03446	100.1259	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03341	100.0978	RENFROW4 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03496	99.9	SPP-SWPS-02A
FDNS	03ALL	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03373	99.9	GEN531447 1-HOLCOMB GENERATOR	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03723	99.9	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03723	99.8	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1	
FNSL	03G11_017	2	14G	G11_017	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.0349	162.0802	DBL-THIS-CLR	
FDNS	03ALL	3	2	14G	G11_017	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.0349	158.3655	DBL-THIS-CLR

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FNSL	03ALL	2	14G	G11_017	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.03475	157.5904	DBL-IRON-CLR	
FDNS	03ALL	2	14G	G11_017	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.03475	127.1743	DBL-SPRVL-CL	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.0349	126.1761	DBL-IRON-CLR	
FDNS		3	2	14G	G11_017	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.0349	124.1276	DBL-IRON-CLR
FDNS	03G11_017	2	14G	G11_017	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.0349	106.5556	DBL-SPRVL-CL	
FDNS		3	2	14G	G11_017	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	115.1	0.0349	104.7349	DBL-SPRVL-CL
FNSL	03G11_017	2	14G	G11_017	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.0349	150.5176	DBL-THIS-CLR	
FDNS		3	2	14G	G11_017	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.0349	146.9269	DBL-THIS-CLR
FNSL	03ALL	2	14G	G11_017	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.03475	146.2213	DBL-IRON-CLR	
FDNS	03ALL	2	14G	G11_017	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.03475	116.2947	DBL-SPRVL-CL	
FDNS	03G11_017	2	14G	G11_017	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.0349	115.3303	DBL-IRON-CLR	
FDNS		3	2	14G	G11_017	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	115.1	0.0349	113.2993	DBL-IRON-CLR
FDNS	03G11_017	2	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04834	223.3374	DBL-WICH-THI	
FDNS		3	2	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04835	219.9313	DBL-WICH-THI
FDNS	09ALL	2	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04962	111.2974	DBL-WICH-THI	
FDNS		9	2	14G	G11_017	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04965	110.1004	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_017	TO->FROM	HAYS PLANT - SOUTH HAYS 115KV CKT 1	99	0.04197	126.0327	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	HAYS PLANT - SOUTH HAYS 115KV CKT 1	99	0.04207	111.987	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1	
FDNS		3	2	14G	G11_017	TO->FROM	HAYS PLANT - SOUTH HAYS 115KV CKT 1	99	0.04206	111.288	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03ALL	2	14G	G11_017	FROM->TO	HAYS PLANT - VINE STREET 115KV CKT 1	88	0.04197	118.6765	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1	
FDNS	03G11_017	2	14G	G11_017	FROM->TO	HAYS PLANT - VINE STREET 115KV CKT 1	88	0.04207	102.8219	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1	
FDNS		3	2	14G	G11_017	FROM->TO	HAYS PLANT - VINE STREET 115KV CKT 1	88	0.04206	102.0988	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	KNOLL - N HAYS3 115.00 115KV CKT 1	88	0.04197	105.069	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1	
FNSL	03G11_017	2	14G	G11_017	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.0349	145.301	DBL-THIS-CLR	
FDNS		3	2	14G	G11_017	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.0349	141.7477	DBL-THIS-CLR
FNSL	03ALL	2	14G	G11_017	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.03475	140.9714	DBL-IRON-CLR	
FDNS	03ALL	2	14G	G11_017	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.03475	111.1014	DBL-SPRVL-CL	
FDNS	03G11_017	2	14G	G11_017	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.0349	110.2345	DBL-IRON-CLR	
FDNS		3	2	14G	G11_017	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	115.1	0.0349	108.2083	DBL-IRON-CLR
FDNS	03ALL	2	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.12604	131.9195	G11-17T 345.00 - POST ROCK 345KV CKT 1	
FNSL	03G11_017	2	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.1048	115.6703	DBL-THIS-CLR	
FNSL	03ALL	2	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.10439	114.9839	DBL-IRON-CLR	
FDNS		3	2	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.10479	113.1846	DBL-THIS-CLR
FDNS	03G11_017	2	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.1265	106.2246	G11-17T 345.00 - POST ROCK 345KV CKT 1	
FDNS		3	2	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.12649	104.0607	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_017	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.09232	101.3946	POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1	
FNSL-Blown up	03ALL	2	14G	G11_017	-	Non-converged Contingency	-	0.36005	-	DBL-THIS-CLR	
FNSL-Blown up	03ALL	2	14G	G11_017	-	Non-converged Contingency	-	0.24233	-	DBL-WICH-THI	
FNSL	03G11_017	2	14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.10535	115.4649	DBL-THIS-CLR	
FNSL	03ALL	2	14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.10497	115.3092	DBL-IRON-CLR	
FDNS		3	2	14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.10535	112.5026	DBL-THIS-CLR
FDNS	03ALL	2	14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.09507	110.6659	AXTELL - POST ROCK 345KV CKT 1	
FDNS	03G11_017	2	14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.09036	105.8049	DBL-WICH-THI	
FDNS	03ALL	2	14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.08204	103.8977	CIRCLE - MULLERGREN 230KV CKT 1	
FDNS		3	2	14G	G11_017	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.09037	103.695	DBL-WICH-THI
FDNS		3	0	14G	G11_018	FROM->TO	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1	717.1	0.04483	99.6	DBL-IRON-CLR
FNSL-Blown up		3	0	14G	G11_018	-	Non-converged Contingency	-	0.07497	-	DBL-THIS-CLR
FNSL-Blown up	03ALL	0	14G	G11_018	-	Non-converged Contingency	-	0.07362	-	DBL-IRON-CLR	
FNSL-Blown up	03ALL	0	14G	G11_018	-	Non-converged Contingency	-	0.07362	-	DBL-SPRVL-CL	
FNSL-Blown up	03ALL	0	14G	G11_018	-	Non-converged Contingency	-	0.07362	-	DBL-THIS-CLR	
FNSL-Blown up	03ALL	2	14G	G11_018	-	Non-converged Contingency	-	0.05376	-	DBL-THIS-CLR	
FDNS	03ALL	0	14G	G11_019	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.03429	101.8867	BENTON - WICHITA 345KV CKT 1	
FDNS		3	0	14G	G11_019	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.03988	116.3855	DBL-WICH-THI
FDNS		3	0	14G	G11_019	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04697	115.9877	DBL-WICH-THI
FDNS	02ALL	0	14G	G11_019	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04672	102.6753	DBL-WICH-THI	
FDNS		3	0	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04697	213.7155	DBL-WICH-THI
FDNS	02ALL	0	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04672	190.5343	DBL-WICH-THI	
FDNS	01ALL	0	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04728	178.5386	DBL-WICH-THI	
FDNS	01G11_019	0	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04732	169.3888	DBL-WICH-THI	
FDNS		2	0	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04696	165.7243	DBL-WICH-THI
FDNS	01NR	0	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05296	163.409	DBL-WICH-THI	
FDNS		1	0	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04734	157.6022	DBL-WICH-THI
FDNS	04ALL	0	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04723	128.235	DBL-WICH-THI	
FDNS	06ALL	0	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04712	121.5982	DBL-WICH-THI	
FDNS		4	0	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0473	119.9346	DBL-WICH-THI
FDNS		6	0	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04715	117.0811	DBL-WICH-THI

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY		
FDNS	00G11_019		0	19WP	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04768	106.564	DBL-WICH-THI	
FDNS	00G11_019		0	14WP	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04694	103.6464	DBL-WICH-THI	
FDNS	09ALL		0	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04736	100.7607	DBL-WICH-THI	
FDNS		9	0	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04739	99.6	DBL-WICH-THI	
FDNS	01ALL		0	14G	G11_019	TO->FROM	EL RENO - ROMAN NOSE 138KV CKT 1	153	0.03971	103.6248	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	01ALL		0	14G	G11_019	TO->FROM	FLATRDG3 - THISTLE4 138.00 138KV CKT 1	286	0.06891	100.1933	DBL-WICH-THI	
FDNS	01ALL		0	14G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.11401	118.9423	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	01ALL		0	14G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.12322	112.5262	DBL-THIS-WWR	
FDNS	01G11_019		0	14G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.11387	108.9659	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	01G11_019		0	14G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.12321	102.5817	DBL-THIS-WWR	
FDNS	02ALL		0	14G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.11272	102.466	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	01ALL		0	14G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.10111	102.2764	DBL-WICH-THI	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11272	183.6191	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10008	176.049	DBL-WICH-THI	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12225	174.3253	DBL-THIS-WWR	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11272	172.22	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11401	170.3555	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11387	163.403	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11265	163.201	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12322	157.5329	DBL-THIS-WWR	
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11285	152.4117	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12321	150.9394	DBL-THIS-WWR	
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11265	150.4894	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS		3	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10035	148.3517	DBL-WICH-THI	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08169	148.208	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08933	147.9841	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09321	145.84	IODINE - WOODWARD EHV 138KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09321	144.3366	DEWEY - IODINE 138KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08258	144.1418	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08031	143.8222	SPP-SWPS-03	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	143.5601	ELK CITY 230KV - SWEETWATER 230KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	143.5599	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08258	142.6931	SPP-SWPS-05	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08258	142.6063	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1	
FDNS	02ALL		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10027	142.2997	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	142.2793	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
FDNS		1	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11378	142.2136	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	141.5129	GEN520997 1-MORLND2	
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11285	139.9773	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	139.1049	SPP-SWPS-02A	
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10111	138.6221	DBL-WICH-THI	
FDNS	01NR		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.13208	137.8738	DBL-THIS-WWR	
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.1225	136.2059	DBL-THIS-WWR	
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10105	135.9479	DBL-WICH-THI	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	135.2137	GEN520998 1-MORLND3	
FDNS		3	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11291	135.2056	NORTHWEST - TATONGA7 345.00 345KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07992	135.1133	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08933	134.985	WOODWARD - WOODWARD 69KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08169	134.9439	SPP-AEPW-32	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	134.4502	BASE CASE	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	133.4836	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	133.4786	SPP-SWPS-02	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	133.4757	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08169	132.1212	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08184	132.1145	SPP-SWPS-01	
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08929	131.916	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09047	131.1244	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09045	131.1017	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08429	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08429	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09316	129.0896	IODINE - WOODWARD EHV 138KV CKT 1	
FDNS		1	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.1232	127.868	DBL-THIS-WWR	
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	127.6762	GEN520997 1-MORLND2	
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09316	127.3742	DEWEY - IODINE 138KV CKT 1	
FDNS	01NR		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11286	125.983	DBL-WICH-THI	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07645	124.8118	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0819	124.5827	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08942	123.8168	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08425	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08425	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07955	123.2898	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08093	123.131	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0819	122.802	SPP-SWPS-04
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0819	122.7854	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS		3	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11291	122.4568	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08047	122.2617	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08045	122.1212	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	122.0695	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07402	122.0571	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08599	121.8925	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07947	121.5911	GEN520997 1-MORLND2
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08599	121.5425	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	121.4421	GEN520998 1-MORLND3
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08047	121.3287	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07955	121.2361	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	121.2182	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08062	120.8622	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	120.7092	GEN520922 1-SLEEPING BEAR
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07845	120.684	WOODDRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08023	120.617	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08275	120.5246	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0806	120.4514	CIMARRON - NORTHWEST 345KV CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0933	120.3888	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	120.3218	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08077	119.9951	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08145	119.7852	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08005	119.7075	SPP-MKEC-08
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08019	119.5288	AXTELL - POST ROCK 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07959	119.3931	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07991	119.3339	FLATRDG3 - HARPER 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0796	119.2566	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	119.2094	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07947	118.9963	CONWAY SUB - NICHOLS STATION 115KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07901	118.9218	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08145	118.9188	FARGO JCT - FT SUPPLY 69KV CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0933	118.6589	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08929	118.6018	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	117.9624	BASE CASE
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08081	117.776	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		1	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10102	117.7097	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	116.875	NC1_GEN-NEBRASKA CITY 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08039	116.4118	SPP-SWPS-03
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08045	116.3194	SPP-SWPS-03
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	116.1909	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	116.1616	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	116.0721	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	116.0624	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07947	115.1849	GEN520998 1-MORLND3
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09014	115.1811	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	115.1561	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	115.0646	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07901	114.7701	LYDIA - VALLIANT 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07901	114.7672	SPP-AEPW-01
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07832	114.6757	DOVER - TWIN LAKES 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	114.6522	GEN515365 1-CENT 21 34.500
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08017	114.6119	IODINE - MOORELAND 138KV CKT 1
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08011	114.586	GEN520997 1-MORLND2
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07832	114.5736	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07639	114.5656	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	114.4248	GEN515393 1-OGEWND2G
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09024	114.4161	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	114.3667	GEN524295 1-SPNSPUR_WND10.6900
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07896	114.3634	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	114.2644	GEN542957 1-IATAN UNIT #1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	114.0759	GEN562023 1-G11_020_3 0.6900
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	114.0759	GEN562026 1-G11_019_3 0.6900
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.9858	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.9346	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.9333	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09632	113.914	DBL-HTCH-BVR
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.8879	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.8091	GEN523201 1-EXCELN4-WTG10.6000
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07753	113.8019	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.7048	GEN659111 2-LELAND OLDS UNIT2
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.6964	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.6432	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08081	113.6027	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.5946	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.5159	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.5159	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.2993	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.299	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.2776	GEN523122 1-NBLWND-WTG210.6900
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.2662	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0802	113.2099	GEN520997 1-MORLND2
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08583	113.2093	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.2023	GEN523121 1-NBLWND-WTG110.6900
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07994	113.2015	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.1601	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.16	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.1298	GEN560584 1-G06-44-2 4.1600
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.1071	GEN523107 1-NOVUS_WND 14.1600
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.0653	GEN523123 1-NBLWND-WTG310.6900
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.0469	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08583	112.9141	BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0784	112.8899	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.8791	GEN645012 2-NEBRASKA CITY 2
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07396	112.867	RENFROWA 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.7727	GEN526334 1-JONES_4 116.500
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.682	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0784	112.6638	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	112.6578	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.6531	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.5882	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	112.573	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.5461	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07532	112.434	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.2396	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.2181	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0802	112.1942	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.1788	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.1612	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	111.9801	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	111.767	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	111.7181	GEN560585 1-G06-44-3 4.1600
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08039	111.7171	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07667	111.2455	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	111.1482	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07842	111.1262	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08055	110.9013	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07667	110.868	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	110.7293	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS		3	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08949	110.695	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS		3	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07954	110.5487	GEN520997 1-MORLND2
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08942	110.5068	WOODWARD - WOODWARD 69KV CKT 1
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11387	110.3151	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	110.2642	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	110.0802	SPP-SWPS-04	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07667	110.016	DEWEY - SOUTHARD 138KV CKT 1	
FDNS	01G11_019	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09625	109.9349	DBL-HTCH-BVR	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	109.8656	SPP-AEPW-32	
FDNS	02ALL	2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08003	109.7937	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07536	109.6092	BYRON_138 138.00 - SANDY_CN_138138.00 138KV CKT 1	
FDNS	02ALL	2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07947	109.5808	BASE CASE
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07963	109.3923	MOORELAND - TALOGA 138KV CKT 1	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	109.2651	GEN560286 1-G10-01-1WTG 0.6900	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	109.2651	GEN560287 1-G10-01-2WTG 0.6900	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07396	109.1152	SAND RDG_138138.00 - WAKITA_138 138.00 138KV CKT 1	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	109.1151	GEN659118 1-LARAMIE RIVER UNIT1	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	108.988	GEN560371 1-G07-46 0.6900	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	108.8202	GEN523971 1-HARRINGTON GEN #1 24 KV	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	108.8198	GEN523972 1-HARRINGTON GEN #2 24 KV	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	108.7981	GEN523973 1-HARRINGTON GEN #3 24 KV	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	108.6938	GEN560256 1-G10-14-1 0.6900	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07532	108.6392	ELK CITY - RED HILLS WIND 138KV CKT 1	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07536	108.5061	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	108.481	GEN560257 1-G10-14-2 0.6900	
FDNS	01ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0802	108.4444	GEN520922 1-SLEEPING BEAR	
FDNS	01G11_019	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08011	108.3905	GEN520998 1-MORLND3	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07955	108.23	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	
FDNS	02ALL	2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	108.1735	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08073	108.0776	BENTON - WICHITA 345KV CKT 1	
FDNS	01G11_019	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09407	107.975	IODINE - WOODWARD EHV 138KV CKT 1	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	107.9542	GEN514805 1-SOONER UNIT 1	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07536	107.9232	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0784	107.8931	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0802	107.8325	HOLCOMB - SETAB 345KV CKT 1	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07961	107.7264	MULLERGREN - SPEARVILLE 230KV CKT 1	
FDNS	01G11_019	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08011	107.7084	GEN515787 1-OKLA WIND ENERGY CENTER	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08192	107.628	SPP-SWPS-01	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07956	107.4894	CIRCLE - MULLERGREN 230KV CKT 1	
FDNS	01ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09131	107.4205	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2	
FDNS	02ALL	2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08183	107.4107	SPP-AEPW-32
FDNS	01ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09129	107.3911	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	107.2897	GEN531447 1-HOLCOMB GENERATOR	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	107.2887	SPP-SWPS-02	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	107.2835	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	107.2265	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	107.1671	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1	
FDNS	01ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0802	107.1278	GEN520998 1-MORLND3	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	106.9477	GEN515787 1-OKLA WIND ENERGY CENTER	
FDNS	02ALL	2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	106.9384	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL	2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	106.9038	SPP-SWPS-02
FDNS	02ALL	2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	106.8963	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	106.8781	GEN562042 1-G11_014 3 0.6900	
FDNS	02ALL	2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	106.87	SPP-SWPS-05
FDNS	02ALL	2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	106.8115	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	3	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09336	106.7211	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07438	106.7179	DOVER SW - OKEENE 138KV CKT 1	
FDNS	02ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0728	106.6253	WOODWARD DISTRICT EHV (WVDEHV) 345/138/13.8KV TRANSFORMER CKT 1	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08055	106.4488	CIMARRON - NORTHWEST 345KV CKT 1	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	106.4187	GEN520922 1-SLEEPING BEAR	
FDNS	01G11_019	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09407	106.3728	DEWEY - IODINE 138KV CKT 1	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	106.2906	GEN514806 1-SOONER UNIT 2	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07957	106.289	GRAND ISLAND - SWEETWATER 345KV CKT 1	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07988	106.1515	FLATRDG3 - HARPER 138KV CKT 1	
FDNS	02ALL	2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08439	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL	2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08439	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09418	106.0575	IODINE - WOODWARD EHV 138KV CKT 1	
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07955	105.9641	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1	
FDNS	02ALL	2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09059	105.6216	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08002	105.6032	SPP-MKEC-08	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09057	105.6023	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09125	105.5905	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09123	105.5635	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08271	105.5608	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0796	105.4984	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08006	105.2393	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07193	105.2351	WOODWARD DISTRICT EHV (WVDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07988	105.0996	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08142	105.0078	FARGO JCT - WOODWARD 69KV CKT 1
FDNS		3	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09336	105.0006	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07958	104.9628	MOORE - PAULINE 345KV CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08198	104.9462	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07997	104.9454	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0753	104.9413	SANDY_CN 138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08183	104.9062	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07988	104.8119	SPP-MKEC-03B
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08011	104.7987	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07945	104.7776	WRTOD400
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07988	104.7607	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07988	104.7465	SPP-MKEC-03A
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07988	104.6971	SPP-MKEC-05
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07944	104.6597	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0765	104.5488	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09418	104.4125	DEWEY - IODINE 138KV CKT 1
FDNS		3	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07954	104.1841	GEN520998 1-MORLND3
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09632	104.1479	DBL-BVR-WWRD
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11401	104.0335	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	103.9699	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08354	103.9327	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08259	103.8072	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08259	103.8072	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11191	103.6571	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	103.6376	GEN562017 1-G11_022_3 0.6900
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08011	103.5511	BASE CASE
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0802	103.4526	BASE CASE
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08663	102.9651	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	102.8572	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	102.7939	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	102.786	GEN560121 1-G08-47 0.5750
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08663	102.7812	BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	00G11_019		0	19SP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12505	102.6164	DBL-THIS-WWR
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	102.5425	NC1_GEN-NEBRASKA CITY 1
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09014	102.5377	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07084	102.5232	WOODWARD - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07182	102.4211	IMO TAP - MEN TAP 138KV CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07407	102.3731	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08654	101.9544	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09024	101.8689	WOODWARD - WOODWARD 69KV CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	101.8316	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08654	101.7788	BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07182	101.7071	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	101.4894	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08514	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08514	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		1	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08007	101.3079	GEN520997 1-MORLND2
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	101.2211	IODINE - MOORELAND 138KV CKT 1
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08346	101.108	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07071	101.0241	MOREWOOD SW - NINE MILE 138KV CKT 1
FDNS	01ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08276	100.993	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08507	100.8042	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08507	100.8042	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08194	100.7059	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07071	100.6702	MOORELAND - NINE MILE 138KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.568	GEN560221 1-G07-62-1 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.568	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.568	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.568	GEN560224 1-G07-62-4 0.6900
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.5067	GEN524295 1-SPNSPUR_WND10.6900
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.4515	GEN523461 1-BLACKHAWK GEN #1
FDNS	01G11_019		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09625	100.4331	DBL-BVR-WWRD
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.4135	GEN523462 1-BLACKHAWK GEN #2
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.4021	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08013	100.3852	IODINE - MOORELAND 138KV CKT 1
FDNS	00G11_019		0	14SP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12373	100.3614	DBL-THIS-WWR
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07947	100.3493	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.3269	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.2757	GEN515365 1-CENT 21 34.500
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07829	100.2693	DOVER - TWIN LAKES 138KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.2604	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.2548	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07829	100.1809	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07892	100.1638	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.1086	GEN560121 1-G08-47 0.5750
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.067	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100	GEN531459 2-S2 GENERATOR
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.917	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.9	GEN539785 1-ENSNOW 1 0.5750
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.9	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07836	99.9	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.8	GEN515393 1-OGEWND2G
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.8	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.8	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.8	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.8	GEN645001 1-FORT CALHOUN 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0775	99.8	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07947	99.7	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	01NR		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.1331	99.7	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.7	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.7	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07836	99.7	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.6	GEN560696 1-G11-008-4 0.6900
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08601	99.5	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		2	0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07851	99.5	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10138	99.5	DBL-HTCH-BVR
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.5	GEN526334 1-JONES_4 116.500
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.5	GEN542962 2-IATAN UNIT #2
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.5	GEN645011 1-NEBRASKA CITY 1
FDNS	03ALL		0	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.5	GEN659111 2-LELAND OLDS UNIT2
FDNS	01ALL		0	14G	G11_019	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03324	116.0983	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_019	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03735	114.7852	DBL-THIS-WWR
FDNS	01ALL		0	14G	G11_019	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03011	108.1327	DBL-WICH-THI
FDNS	01G11_019		0	14G	G11_019	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03321	106.1476	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_019		0	14G	G11_019	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03735	104.426	DBL-THIS-WWR
FDNS	01NR		0	14G	G11_019	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.04422	100.7277	DBL-THIS-WWR
FDNS		1	0	14G	G11_019	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03317	99.8	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_019		0	14G	G11_019	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.0301	99.6	DBL-WICH-THI
FDNS		3	0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04697	223.9645	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04672	200.8338	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04728	188.9328	DBL-WICH-THI
FDNS	01G11_019		0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04732	179.8183	DBL-WICH-THI
FDNS		2	0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04696	176.1806	DBL-WICH-THI
FDNS	01NR		0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05296	173.8654	DBL-WICH-THI
FDNS		1	0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04734	168.0853	DBL-WICH-THI
FDNS	04ALL		0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04723	138.7306	DBL-WICH-THI
FDNS	06ALL		0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04712	132.2025	DBL-WICH-THI
FDNS		4	0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0473	130.4421	DBL-WICH-THI
FDNS		6	0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04715	127.685	DBL-WICH-THI
FDNS	00G11_019		0	19WP	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04768	117.9717	DBL-WICH-THI

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	00G11_019		0	14WP	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04694	113.8751	DBL-WICH-THI
FDNS	09ALL		0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04736	111.2997	DBL-WICH-THI
FDNS		9	0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04739	110.1027	DBL-WICH-THI
FDNS		13	0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04745	106.7686	DBL-WICH-THI
FDNS	13ALL		0	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04747	106.1697	DBL-WICH-THI
FDNS	00G11_019		0	14SP	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04773	100.4716	DBL-WICH-THI
FDNS	00NR		0	19WP	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05403	100.1952	DBL-WICH-THI
FDNS		3	0	14G	G11_019	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03406	113.5448	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS		3	0	14G	G11_019	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.04219	100.7172	DBL-WICH-THI
FNSL-Blown up	03ALL		0	14G	G11_019	-	Non-converged Contingency	-	0.2498	-	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_019	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.37173	102.794	DBL-THIS-WWR
FDNS	01ALL		0	14G	G11_019	TO->FROM	ROMAN NOSE - SOUTHARD 138KV CKT 1	153	0.03971	107.0659	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS		3	0	14G	G11_019	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03385	109.4862	DBL-WICH-THI
FDNS	04ALL		0	14G	G11_019	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03419	106.648	DBL-WICH-THI
FDNS	00G11_019		0	24SP	G11_019	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.0491	100.7967	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	00G11_019		0	24SP	G11_019	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.0491	99.8	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	00G11_019		0	24SP	G11_019	FROM->TO	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2	560	0.04845	99.6	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.03524	99.8	BENTON - WICHITA 345KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.04284	109.6434	DBL-WICH-THI
FDNS		3	2	14G	G11_019	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04745	113.6224	DBL-WICH-THI
FDNS		3	2	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04745	209.5236	DBL-WICH-THI
FDNS	09ALL		2	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04736	100.7582	DBL-WICH-THI
FDNS		9	2	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04739	99.6	DBL-WICH-THI
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10911	172.8268	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10911	160.6288	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09871	152.9735	DBL-WICH-THI
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10934	142.7618	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0872	140.3486	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09095	137.81	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09095	136.0836	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	135.3819	GEN520997 1-MORLND2
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10934	130.3082	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08246	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08246	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	129.0801	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07959	126.9997	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07886	126.9983	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0872	126.8514	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	126.4388	BASE CASE
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07819	124.8549	SPP-SWPS-03
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	124.7372	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	124.6975	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07928	124.4786	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	123.9346	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	121.5078	SPP-SWPS-02A
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07472	121.2965	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07792	121.0796	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08404	120.0462	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07928	119.9158	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08404	119.8413	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07237	119.2676	RENFROW4 138.00 - SAND RDG 138/138.00 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07968	119.2017	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07845	118.3679	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07959	117.9566	SPP-AEPW-32
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07873	117.8226	MINGO - SETAB 345KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08736	117.744	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07886	117.6146	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07968	117.4292	SPP-SWPS-04
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07968	117.3087	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07892	116.9412	MINGO - RED WILLOW 345KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07766	116.7216	GEN520997 1-MORLND2
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	115.9103	STATELINE INTERCHANGE - STLN-DEMAR6 230KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	115.8725	SPP-SWPS-02
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	115.867	STLN-DEMAR6 - SWEETWATER 230KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07975	115.5472	SPP-SWPS-01

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07894	115.5094	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07237	115.487	SAND RDG 138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07959	115.2876	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	115.1958	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07661	115.0158	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07777	115.0003	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	114.3959	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07785	114.287	MULLERGREEN - SPEARVILLE 230KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0785	114.1293	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07779	114.045	CIRCLE - MULLERGREEN 230KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	113.8484	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07868	113.8214	CIMARRON - NORTHWEST 345KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09113	113.8039	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	113.4433	GEN514806 1-SOONER UNIT 2
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08079	113.2797	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07775	113.1855	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	113.162	FLATRDG3 - HARPER 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08547	113.0743	DBL-HTCH-BVR
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07814	113.0242	SPP-MKEC-08
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07777	112.6675	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07951	112.5959	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	112.5058	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07779	112.4511	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07806	112.2746	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	112.2052	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	112.2009	SPP-MKEC-03B
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07825	112.1649	BENTON - ROSE HILL 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	112.1641	SPP-MKEC-05
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	112.1598	SPP-MKEC-03A
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07777	112.0827	MOORE - PAULINE 345KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09113	112.073	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	112.0386	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	111.9995	GEN520947 1-HUGO1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	111.988	GEN515225 1-MUSKOGEE 5G
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	111.9783	GEN515226 1-MUSKOGEE 6G
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07766	110.3004	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	109.9108	NC1_GEN-NEBRASKA CITY 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.9478	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.9478	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.9478	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.9478	GEN560224 1-G07-62-4 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.784	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07827	107.7785	IODINE - MOORELAND 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0771	107.7362	LYDIA - VALLIANT 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0771	107.7337	SPP-AEPW-01
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.6833	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.6824	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.6703	GEN560121 1-G08-47 0.5750
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.6304	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.6248	GEN515365 1-CENT 21 34.500
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07646	107.5373	DOVER - TWIN LAKES 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0869	107.4899	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08692	107.4837	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07708	107.4484	NOBHILL (NOBHILA) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07646	107.4333	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.396	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.3959	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.2702	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.2461	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.2384	GEN539785 1-ENSGW 1 0.5750
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.2265	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.2051	GEN531459 2-S2 GENERATOR
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.1653	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07738	107.1636	MATHWSN7 345.00 - WOODRING 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.1339	GEN515393 1-OGEWND2G
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.128	GEN526334 1-JONES 4 116.500

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB		TC%LOADING		CONTINGENCY
							(MVA)	TDF	(% MVA)		
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.0445	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.0445	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.0243	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.005	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07569	106.9716	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07656	106.9489	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0783	106.9355	SPP-SWPS-05
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.9089	GEN560696 1-G11-008-4 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.8913	GEN645001 1-FORT CALHOUN 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0783	106.8565	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.8361	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.8148	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.7561	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07656	106.7298	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07738	106.713	CIMARRON - MATHWSN7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.6583	GEN542962 2-IATAN UNIT #2
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.6473	GEN659111 2-LELAND OLDS UNIT2
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.5948	GEN645011 1-NEBRASKA CITY 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.4527	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.4527	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.4106	GEN526331 1-JONES GEN #1 22 KV
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.2382	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.2378	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.2074	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.0987	GEN560695 1-G11-008-3 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.021	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.0123	GEN526332 1-JONES GEN #2 21 KV
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.0014	GEN542902 1-GPW_G1 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07658	105.9606	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.8824	GEN560694 1-G11-008-2 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.8687	GEN645012 2-NEBRASKA CITY 2
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.8022	GEN560514 1-G04_014 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.5261	GEN640009 1-COOPER NUCLEAR STATION
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07364	105.5131	BYRON_138 138.00 - SANDY_CN 138138.00 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.3724	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.3523	GEN539807 1-G05-12 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.169	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.082	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.029	GEN560238 1-G10-09 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.6932	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.693	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.6785	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.6111	GEN560659 1-G07-38 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.5684	GEN562035 1-G11_016_3 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.5501	GEN560432 1-G08-124 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.533	GEN560693 1-G11-008-1 0.6900
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07978	104.4333	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.4133	GEN560549 1-G06-06 0.6900
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08264	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08264	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08736	104.1408	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07364	104.1072	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07483	104.1048	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.0766	GEN560329 1-G10-45 0.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.0657	GEN531503 1-CIMRRN 1 34.500
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07364	103.7582	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07483	103.7241	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07766	103.4279	BASE CASE
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07483	103.0744	DEWEY - SOUTHARD 138KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07838	102.9807	SPP-SWPS-03
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07836	102.9398	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07836	102.9342	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	102.7291	GEN523117 1-BUFF_DUNES210.6900
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08168	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08168	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL		2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07942	102.4598	BEAVER CO 345.00 - BUCKNER7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	03ALL	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	102.4369	GEN562032 1-G11_017_3 0.6900
FDNS		3	2	14G	G11_019	TO->FROM	153	0.07942	102.1895	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	153	0.07836	102.1802	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07775	101.9373	MOORELAND - TALOGA 138KV CKT 1
FDNS	03ALL	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11127	101.9149	DBL-THIS-WWR
FDNS	03ALL	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	101.8124	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	03ALL	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07346	101.7384	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	153	0.07486	101.5448	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	101.3654	GEN525561 1-TOLK GEN #1 24 KV
FDNS	03ALL	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	101.2021	GEN525562 1-TOLK GEN #2 24 KV
FDNS	03ALL	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07263	100.712	DOVER SW - OKEENE 138KV CKT 1
FDNS	03ALL	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07105	100.161	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	153	0.07809	100.1259	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	153	0.0725	100.0978	RENFROWA 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	153	0.07836	99.9	SPP-SWPS-02A
FDNS	03ALL	2	14G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	99.9	GEN531447 1-HOLCOMB GENERATOR
FDNS		3	2	14G	G11_019	FROM->TO	110	0.04745	219.9313	DBL-WICH-THI
FDNS	09ALL	2	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04736	111.2974	DBL-WICH-THI
FDNS		9	2	14G	G11_019	FROM->TO	110	0.04739	110.1004	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_019	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03807	131.9195	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_019	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03807	108.3648	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS		3	2	14G	G11_019	TO->FROM	398	0.03852	104.0607	G11-17T 345.00 - POST ROCK 345KV CKT 1
FNSL-Blown up	03ALL	2	14G	G11_019	-	Non-converged Contingency	-	0.25175	-	DBL-WICH-THI
FDNS		3	2	14G	G11_019	FROM->TO	330	0.03633	103.695	DBL-WICH-THI
FDNS	01NR	3	14G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05293	162.6324	DBL-WICH-THI
FDNS	01NR	3	14G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05293	173.0957	DBL-WICH-THI
FDNS	03ALL	0	14G	G11_020	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.03429	101.8867	BENTON - WICHITA 345KV CKT 1
FDNS		3	0	14G	G11_020	TO->FROM	318.7	0.03988	116.3855	DBL-WICH-THI
FDNS		3	0	14G	G11_020	FROM->TO	191	0.04697	115.9877	DBL-WICH-THI
FDNS	02ALL	0	14G	G11_020	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04672	102.6753	DBL-WICH-THI
FDNS		3	0	14G	G11_020	TO->FROM	110	0.04697	213.7155	DBL-WICH-THI
FDNS	02ALL	0	14G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04672	190.5343	DBL-WICH-THI
FDNS	01ALL	0	14G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04728	178.5386	DBL-WICH-THI
FDNS	01G11_020	0	14G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04732	169.3888	DBL-WICH-THI
FDNS		2	0	14G	G11_020	TO->FROM	110	0.04696	165.7243	DBL-WICH-THI
FDNS	01NR	0	14G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05296	163.409	DBL-WICH-THI
FDNS		1	0	14G	G11_020	TO->FROM	110	0.04734	157.6022	DBL-WICH-THI
FDNS	04ALL	0	14G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04723	128.235	DBL-WICH-THI
FDNS	06ALL	0	14G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04712	121.5982	DBL-WICH-THI
FDNS		4	0	14G	G11_020	TO->FROM	110	0.0473	119.9346	DBL-WICH-THI
FDNS		6	0	14G	G11_020	TO->FROM	110	0.04715	117.0811	DBL-WICH-THI
FDNS	00G11_020	0	19WP	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04768	106.564	DBL-WICH-THI
FDNS	00G11_020	0	14WP	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04694	103.6464	DBL-WICH-THI
FDNS	09ALL	0	14G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04736	100.7607	DBL-WICH-THI
FDNS		9	0	14G	G11_020	TO->FROM	110	0.04739	99.6	DBL-WICH-THI
FDNS	01ALL	0	14G	G11_020	TO->FROM	EL RENO - ROMAN NOSE 138KV CKT 1	153	0.03971	103.6248	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	0	14G	G11_020	TO->FROM	FLATRDG3 - THISTLE4 138.00 138KV CKT 1	286	0.06891	100.1933	DBL-WICH-THI
FDNS	01ALL	0	14G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.11401	118.9423	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	0	14G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.12322	112.5262	DBL-THIS-WWR
FDNS	01G11_020	0	14G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.11387	108.9659	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_020	0	14G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.12321	102.5817	DBL-THIS-WWR
FDNS	02ALL	0	14G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.11272	102.466	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	0	14G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.10111	102.2764	DBL-WICH-THI
FDNS	02ALL	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11272	183.6191	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10008	176.049	DBL-WICH-THI
FDNS	02ALL	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12225	174.3253	DBL-THIS-WWR
FDNS	02ALL	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11272	172.22	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11401	170.3555	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_020	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11387	163.403	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11265	163.201	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12322	157.5329	DBL-THIS-WWR
FDNS		2	0	14G	G11_020	TO->FROM	153	0.11285	152.4117	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_020	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12321	150.9394	DBL-THIS-WWR
FDNS	03ALL	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11265	150.4894	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	0	14G	G11_020	TO->FROM	153	0.10035	148.3517	DBL-WICH-THI
FDNS	02ALL	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08169	148.208	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08933	147.9841	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09321	145.84	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09321	144.3366	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08258	144.1418	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08031	143.8222	SPP-SWPS-03
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	143.5601	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	143.5599	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08258	142.6931	SPP-SWPS-05
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08258	142.6063	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10027	142.2997	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	142.2793	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		1	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11378	142.2136	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	141.5129	GEN520997 1-MORLND2
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11285	139.9773	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	139.1049	SPP-SWPS-02A
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10111	138.6221	DBL-WICH-THI
FDNS	01NR		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.13208	137.8738	DBL-THIS-WWR
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.1225	136.2059	DBL-THIS-WWR
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10105	135.9479	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	135.2137	GEN520998 1-MORLND3
FDNS		3	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11291	135.2056	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07992	135.1133	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08933	134.985	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08169	134.9439	SPP-AEPW-32
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	134.4502	BASE CASE
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	133.4836	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	133.4786	SPP-SWPS-02
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08029	133.4757	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08169	132.1212	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08184	132.1145	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08929	131.916	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09047	131.1244	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09045	131.1017	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08429	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08429	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09316	129.0896	IODINE - WOODWARD EHV 138KV CKT 1
FDNS		1	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.1232	127.868	DBL-THIS-WWR
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	127.6762	GEN520997 1-MORLND2
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09316	127.3742	DEWEY - IODINE 138KV CKT 1
FDNS	01NR		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11286	125.983	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07645	124.8118	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0819	124.5827	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08942	123.8168	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08425	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08425	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07955	123.2898	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08093	123.131	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0819	122.802	SPP-SWPS-04
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0819	122.7854	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS		3	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11291	122.4568	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08047	122.2617	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08045	122.1212	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	122.0695	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07402	122.0571	RENFROW4 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08599	121.8925	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07947	121.591	GEN520997 1-MORLND2
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08599	121.5425	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	121.4421	GEN520998 1-MORLND3
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08047	121.3287	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07955	121.2361	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	121.2182	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08062	120.8622	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	120.7092	GEN520922 1-SLEEPING BEAR
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07845	120.684	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08023	120.617	HOLCOMB - SETAB 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08275	120.5246	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0806	120.4514	CIMARRON - NORTHWEST 345KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0933	120.3888	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	120.3218	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08077	119.9951	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08145	119.7852	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08005	119.7075	SPP-MKEC-08
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08019	119.5288	AXTELL - POST ROCK 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07959	119.3931	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07991	119.3339	FLATRDG3 - HARPER 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0796	119.2566	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	119.2094	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07947	118.9963	CONWAY SUB - NICHOLS STATION 115KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07901	118.9218	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08145	118.9188	FARGO JCT - FT SUPPLY 69KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0933	118.6589	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08929	118.6018	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	117.9624	BASE CASE
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08081	117.776	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		1	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10102	117.7097	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	116.875	NC1_GEN-NEBRASKA CITY 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08039	116.4118	SPP-SWPS-03
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08045	116.3194	SPP-SWPS-03
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	116.1909	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	116.1616	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	116.0721	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	116.0624	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07947	115.1849	GEN520998 1-MORLND3
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09014	115.1811	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	115.1561	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	115.0646	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07901	114.7701	LYDIA - VALLIANT 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07901	114.7672	SPP-AEPW-01
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07832	114.6757	DOVER - TWIN LAKES 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	114.6522	GEN515365 1-CENT 21 34.500
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08017	114.6119	IODINE - MOORELAND 138KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08011	114.586	GEN520997 1-MORLND2
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07832	114.5736	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07639	114.5656	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	114.4248	GEN515393 1-OGEWND2G
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09024	114.4161	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	114.3667	GEN524295 1-SPNSPUR_WND10.6900
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07896	114.3634	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	114.2644	GEN542957 1-IATAN UNIT #1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	114.0759	GEN562023 1-G11_020_3 0.6900
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	114.0759	GEN562026 1-G11_019_3 0.6900
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.9858	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.9346	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.9333	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09632	113.914	DBL-HTCH-BVR
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.8879	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.8091	GEN523201 1-EXCELN4-WTG10.6000
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07753	113.8019	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.7048	GEN659111 2-LELAND OLDS UNIT2
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.6964	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.6432	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08081	113.6027	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.5946	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.5159	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.5159	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.2993	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.299	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.2776	GEN523122 1-NBLWND-WTG210.6900
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.2662	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0802	113.2099	GEN520997 1-MORLND2
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08583	113.2093	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.2023	GEN523121 1-NBLWND-WTG110.6900
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07994	113.2015	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.1601	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.16	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.1298	GEN560584 1-G06-44-2 4.1600
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.1071	GEN523107 1-NOVUS_WND 14.1600
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.0653	GEN523123 1-NBLWND-WTG310.6900
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	113.0469	GEN532751 1-WOLF CRECK GENERATING STATION UNIT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08583	112.9141	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0784	112.8899	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.8791	GEN645012 2-NEBRASKA CITY 2
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07396	112.867	RENFROWA 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.7727	GEN526334 1-JONES 4 116.500
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.682	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0784	112.6638	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	112.6578	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.6531	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.5882	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	112.573	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.5461	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07532	112.434	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.2396	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.2181	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0802	112.1942	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.1788	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	112.1612	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	111.9801	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	111.767	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	111.7181	GEN560585 1-G06-44-3 4.1600
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08039	111.7171	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07667	111.2455	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	111.1482	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07842	111.1262	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08055	110.9013	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07667	110.868	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	110.7293	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS		3	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08949	110.695	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS		3	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07954	110.5487	GEN520997 1-MORLN2D
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08942	110.5068	WOODWARD - WOODWARD 69KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11387	110.3151	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	110.2642	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	110.0802	SPP-SWPS-04
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07667	110.016	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09625	109.9349	DBL-HTCH-BVR
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	109.8656	SPP-AEPW-32
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08003	109.7937	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07536	109.6092	BYRON_138 138.00 - SANDY_CN 138138.00 138KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07947	109.5808	BASE CASE
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07963	109.3923	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	109.2651	GEN560286 1-G10-01-1WTG 0.6900
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	109.2651	GEN560287 1-G10-01-2WTG 0.6900
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07396	109.1152	SAND RDG 138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	109.1151	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	108.988	GEN560371 1-G07-46 0.6900
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	108.8202	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	108.8198	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	108.7981	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	108.6938	GEN560256 1-G10-14-1 0.6900
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07532	108.6392	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07536	108.5061	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	108.481	GEN560257 1-G10-14-2 0.6900
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0802	108.4444	GEN520922 1-SLEEPING BEAR
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08011	108.3905	GEN520998 1-MORLN3D
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07955	108.23	SMOKYH6 230.00 - SUMMIT 230KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	108.1735	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08073	108.0776	BENTON - WICHITA 345KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09407	107.975	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	107.9542	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07536	107.9232	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0784	107.8931	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0802	107.8325	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07961	107.7264	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08011	107.7084	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08192	107.628	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07956	107.4894	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09131	107.4205	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08183	107.4107	SPP-AEPW-32
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09129	107.3911	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	107.2897	GEN531447 1-HOLCOMB GENERATOR
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	107.2887	SPP-SWPS-02
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	107.2835	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08036	107.2265	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	107.1671	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0802	107.1278	GEN520998 1-MORLND3
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	106.9477	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	106.9384	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	106.9038	SPP-SWPS-02
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08043	106.8963	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	106.8781	GEN562042 1-G11_014_3 0.6900
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	106.87	SPP-SWPS-05
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	106.8115	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS		3	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09336	106.7211	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07438	106.7179	DOVER SW - OKEENE 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0728	106.6253	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08055	106.4488	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	106.4187	GEN520922 1-SLEEPING BEAR
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09407	106.3728	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	106.2906	GEN514806 1-SOONER UNIT 2
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07957	106.289	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07988	106.1515	FLATRDG3 - HARPER 138KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08439	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08439	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09418	106.0575	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07955	105.9641	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09059	105.6216	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08002	105.6032	SPP-MKEC-08
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09057	105.6023	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09125	105.5905	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09123	105.5635	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08271	105.5608	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0796	105.4984	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08006	105.2393	BENTON - ROSE HILL 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07193	105.2351	WOODWARD DISTRICT EHV (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07988	105.0996	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08142	105.0078	FARGO JCT - WOODWARD 69KV CKT 1
FDNS		3	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09336	105.0006	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07958	104.9628	MOORE - PAULINE 345KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08198	104.9462	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07997	104.9454	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0753	104.9413	SANDY_CN_138138.00 - WAKITA_138 138.00 138KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08183	104.9062	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07988	104.8119	SPP-MKEC-03B
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08011	104.7987	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07945	104.7776	WRTOD400
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07988	104.7607	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07988	104.7465	SPP-MKEC-03A
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07988	104.6971	SPP-MKEC-05
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07944	104.6597	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0765	104.5488	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09418	104.4125	DEWEY - IODINE 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		3	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07954	104.1841	GEN520998 1-MORLND3
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09632	104.1479	DBL-BVR-WWRD
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11401	104.0335	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	103.9699	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08354	103.9327	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08259	103.8072	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08259	103.8072	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	06ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11191	103.6571	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	103.6376	GEN562017 1-G11_022_3 0.6900
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08011	103.5511	BASE CASE
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0802	103.4526	BASE CASE
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08663	102.9651	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	102.8572	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	102.7939	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0794	102.786	GEN560121 1-G08-47 0.5750
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08663	102.7812	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	00G11_020		0	19SP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12505	102.6164	DBL-THIS-WWR
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	102.5425	NC1_GEN-NEBRASKA CITY 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09014	102.5377	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07084	102.5232	WOODWARD - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07182	102.4211	IMO TAP - MEN TAP 138KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07407	102.3731	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08654	101.9544	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09024	101.8689	WOODWARD - WOODWARD 69KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	101.8316	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08654	101.7788	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07182	101.7071	CLEO CORNER - MEN TAP 138KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	101.4894	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08514	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08514	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		1	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08007	101.3079	GEN520997 1-MORLND2
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	101.2211	IODINE - MOORELAND 138KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08346	101.108	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07071	101.0241	MOREWOOD SW - NINE MILE 138KV CKT 1
FDNS	01ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08276	100.993	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08507	100.8042	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08507	100.8042	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08194	100.7059	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07071	100.6702	MOORELAND - NINE MILE 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.568	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.568	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.568	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.568	GEN560224 1-G07-62-4 0.6900
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.5067	GEN524295 1-SPNSPUR_WND10.6900
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.4515	GEN523461 1-BLACKHAWK GEN #1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09625	100.4331	DBL-BVR-WWRD
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.4135	GEN523462 1-BLACKHAWK GEN #2
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.4021	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08013	100.3852	IODINE - MOORELAND 138KV CKT 1
FDNS	00G11_020		0	14SP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12373	100.3614	DBL-THIS-WWR
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07947	100.3493	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.3269	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.2757	GEN515365 1-CENT 21 34.500
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07829	100.2693	DOVER - TWIN LAKES 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.2604	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.2548	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07829	100.1809	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07892	100.1638	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.1086	GEN560121 1-G08-47 0.5750
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100.067	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100	GEN531459 2-S2 GENERATOR
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	100	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.917	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.9	GEN539785 1-ENSGW 1 0.5750

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.9	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07836	99.9	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.8	GEN515393 1-OGEWND2G
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.8	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.8	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.8	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.8	GEN645001 1-FORT CALHOUN 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0775	99.8	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07947	99.7	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	01NR		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.1331	99.7	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.7	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.7	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07836	99.7	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.6	GEN560696 1-G11-008-4 0.6900
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08601	99.5	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		2	0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07851	99.5	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10138	99.5	DBL-HTCH-BVR
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.5	GEN526334 1-JONES 4 116.500
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.5	GEN542962 2-IATAN UNIT #2
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.5	GEN645011 1-NEBRASKA CITY 1
FDNS	03ALL		0	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07936	99.5	GEN659111 2-LELAND OLDS UNIT2
FDNS	01ALL		0	14G	G11_020	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03324	116.0983	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_020	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03735	114.7852	DBL-THIS-WWR
FDNS	01ALL		0	14G	G11_020	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03011	108.1327	DBL-WICH-THI
FDNS	01G11_020		0	14G	G11_020	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03321	106.1476	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03735	104.426	DBL-THIS-WWR
FDNS	01NR		0	14G	G11_020	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.04422	100.7277	DBL-THIS-WWR
FDNS		1	0	14G	G11_020	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03317	99.8	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_020		0	14G	G11_020	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.0301	99.6	DBL-WICH-THI
FDNS		3	0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04697	223.9645	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04672	200.8338	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04728	188.9328	DBL-WICH-THI
FDNS	01G11_020		0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04732	179.8183	DBL-WICH-THI
FDNS		2	0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04696	176.1806	DBL-WICH-THI
FDNS	01NR		0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05296	173.8654	DBL-WICH-THI
FDNS		1	0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04734	168.0853	DBL-WICH-THI
FDNS	04ALL		0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04723	138.7306	DBL-WICH-THI
FDNS	06ALL		0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04712	132.2025	DBL-WICH-THI
FDNS		4	0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0473	130.4421	DBL-WICH-THI
FDNS		6	0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04715	127.685	DBL-WICH-THI
FDNS	00G11_020		0	19WP	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04768	117.9717	DBL-WICH-THI
FDNS	00G11_020		0	14WP	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04694	113.8751	DBL-WICH-THI
FDNS	09ALL		0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04736	111.2997	DBL-WICH-THI
FDNS		9	0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04739	110.1027	DBL-WICH-THI
FDNS		13	0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04745	106.7686	DBL-WICH-THI
FDNS	13ALL		0	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04747	106.1697	DBL-WICH-THI
FDNS	00G11_020		0	14SP	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04773	100.4716	DBL-WICH-THI
FDNS	00NR		0	19WP	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05403	100.1952	DBL-WICH-THI
FDNS		3	0	14G	G11_020	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03406	113.5448	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS		3	0	14G	G11_020	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.04219	100.7172	DBL-WICH-THI
FNLS-Blown up	03ALL		0	14G	G11_020	-	Non-converged Contingency	-	0.2498	-	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_020	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.37173	102.794	DBL-THIS-WWR
FDNS	01ALL		0	14G	G11_020	TO->FROM	ROMAN NOSE - SOUTHARD 138KV CKT 1	153	0.03971	107.0659	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS		3	0	14G	G11_020	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03385	109.4862	DBL-WICH-THI
FDNS	04ALL		0	14G	G11_020	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03419	106.648	DBL-WICH-THI
FDNS	00G11_020		0	24SP	G11_020	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.0491	100.7967	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	00G11_020		0	24SP	G11_020	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.0491	99.8	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	00G11_020		0	24SP	G11_020	FROM->TO	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2	560	0.04845	99.6	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.03524	99.8	BENTON - WICHITA 345KV CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.04284	109.6434	DBL-WICH-THI
FDNS		3	2	14G	G11_020	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04745	113.6224	DBL-WICH-THI
FDNS		3	2	14G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04745	209.5236	DBL-WICH-THI
FDNS	09ALL		2	14G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04736	100.7582	DBL-WICH-THI
FDNS		9	2	14G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04739	99.6	DBL-WICH-THI
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10911	172.8268	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10911	160.6288	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		3	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09871	152.9735	DBL-WICH-THI
FDNS		3	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10934	142.7618	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0872	140.3486	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09095	137.81	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09095	136.0836	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	135.3819	GEN520997 1-MORLND2
FDNS		3	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10934	130.3082	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08246	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08246	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	129.0801	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07959	126.9997	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07886	126.9983	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0872	126.8514	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	126.4388	BASE CASE
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07819	124.8549	SPP-SWPS-03
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	124.7372	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	124.6975	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07928	124.4786	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	123.9346	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	121.5078	SPP-SWPS-02A
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07472	121.2965	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07792	121.0796	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08404	120.0462	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07928	119.9158	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08404	119.8413	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07237	119.2676	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07968	119.2017	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07845	118.3679	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07959	117.9566	SPP-AEPW-32
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07873	117.8226	MINGO - SETAB 345KV CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08736	117.744	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07886	117.6146	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07968	117.4292	SPP-SWPS-04
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07968	117.3087	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07892	116.9412	MINGO - RED WILLOW 345KV CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07766	116.7216	GEN520997 1-MORLND2
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	115.9103	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	115.8725	SPP-SWPS-02
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07817	115.867	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07975	115.5472	SPP-SWPS-01
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07894	115.5094	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07237	115.487	SAND RDG 138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07959	115.2876	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	115.1958	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07661	115.0158	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07777	115.0003	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	114.3959	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07785	114.287	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0785	114.1293	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07779	114.045	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	113.8484	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07868	113.8214	CIMARRON - NORTHWEST 345KV CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09113	113.8039	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	113.4433	GEN514806 1-SOONER UNIT 2
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08079	113.2797	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07775	113.1855	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	113.162	FLATRDG3 - HARPER 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08547	113.0743	DBL-HTCH-BVR
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07814	113.0242	SPP-MKEC-08
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07777	112.6675	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07951	112.5959	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	112.5058	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07779	112.4511	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07806	112.2746	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	112.2052	CLEARWATER - MILAN TAP 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	112.2009	SPP-MKEC-03B
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07825	112.1649	BENTON - ROSE HILL 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	112.1641	SPP-MKEC-05
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	112.1598	SPP-MKEC-03A
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07777	112.0827	MOORE - PAULINE 345KV CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09113	112.073	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	112.0386	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	111.9995	GEN520947 1-HUGO1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	111.988	GEN515225 1-MUSKOGEE 5G
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	111.9783	GEN515226 1-MUSKOGEE 6G
FDNS		3	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07766	110.3004	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	109.9108	NC1_GEN-NEBRASKA CITY 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.9478	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.9478	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.9478	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.9478	GEN560224 1-G07-62-4 0.6900
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.784	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07827	107.7785	IODINE - MOORELAND 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0771	107.7362	LYDIA - VALLIANT 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0771	107.7337	SPP-AEPW-01
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.6833	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.6824	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.6703	GEN560121 1-G08-47 0.5750
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.6304	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.6248	GEN515365 1-CENT 21 34.500
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07646	107.5373	DOVER - TWIN LAKES 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0869	107.4899	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08692	107.4837	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07708	107.4484	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07646	107.4333	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.396	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.3959	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.2702	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.2461	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.2384	GEN539785 1-ENSGW 1 0.5750
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.2265	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.2051	GEN531459 2-S2 GENERATOR
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.1653	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07738	107.1636	MATHWSN7 345.00 - WOODRING 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.1339	GEN515393 1-OGEWND2G
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.128	GEN526334 1-JONES 4 116.500
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.0445	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.0445	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.0243	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	107.005	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07569	106.9716	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07656	106.9489	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0783	106.9355	SPP-SWPS-05
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.9089	GEN560696 1-G11-008-4 0.6900
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.8913	GEN645001 1-FORT CALHOUN 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0783	106.8565	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.8361	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.8148	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.7561	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07656	106.7298	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07738	106.713	CIMARRON - MATHWSN7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.6583	GEN542962 2-IATAN UNIT #2
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.6473	GEN659111 2-LELAND OLDS UNIT2
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.5948	GEN645011 1-NEBRASKA CITY 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.4527	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.4527	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.4106	GEN526331 1-JONES GEN #1 22 KV
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.2382	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.2378	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.2074	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	03ALL		2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.0987	GEN560695 1-G11-008-3 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.021	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.0123	GEN526332 1-JONES GEN #2 21 KV
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	106.0014	GEN542902 1-GPW_G1 0.6900
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07658	105.9606	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.8824	GEN560694 1-G11-008-2 0.6900
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.8687	GEN645012 2-NEBRASKA CITY 2
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.8022	GEN560514 1-G04_014 0.6900
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.5261	GEN640009 1-COOPER NUCLEAR STATION
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07364	105.5131	BYRON_138 138.00 - SANDY_CN 138138.00 138KV CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.3724	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.3523	GEN539807 1-G05-12 0.6900
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.169	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.082	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	105.029	GEN560238 1-G10-09 0.6900
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.6932	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.693	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.6785	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.6111	GEN560659 1-G07-38 0.6900
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.5684	GEN562035 1-G11_016_3 0.6900
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.5501	GEN560432 1-G08-124 0.6900
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.533	GEN560693 1-G11-008-1 0.6900
FDNS		3	2	14G	G11_020	TO->FROM	153	0.07978	104.4333	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.4133	GEN560549 1-G06-06 0.6900
FDNS	3	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08264	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	3	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08264	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		3	2	14G	G11_020	TO->FROM	153	0.08736	104.1408	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07364	104.1072	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07483	104.1048	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.0766	GEN560329 1-G10-45 0.6900
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	104.0657	GEN531503 1-CIMRRN 1 34.500
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07364	103.7582	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07483	103.7241	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	153	0.07766	103.4279	BASE CASE
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07483	103.0744	DEWEY - SOUTHARD 138KV CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	153	0.07838	102.9807	SPP-SWPS-03
FDNS		3	2	14G	G11_020	TO->FROM	153	0.07836	102.9398	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	153	0.07836	102.9342	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	102.7291	GEN523117 1-BUFF_DUNES210.6900
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08168	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08168	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07942	102.4598	BEAVER CO 345.00 - BUCKNER7 345.00 345KV CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	102.4369	GEN562032 1-G11_017_3 0.6900
FDNS		3	2	14G	G11_020	TO->FROM	153	0.07942	102.1895	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	153	0.07836	102.1802	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07775	101.9373	MOORELAND - TALOGA 138KV CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11127	101.9149	DBL-THIS-WWR
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	101.8124	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07346	101.7384	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	153	0.07486	101.5448	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	101.3654	GEN525561 1-TOLK GEN #1 24 KV
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	101.2021	GEN525562 1-TOLK GEN #2 24 KV
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07263	100.712	DOVER SW - OKEENE 138KV CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07105	100.161	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	153	0.07809	100.1259	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	153	0.0725	100.0978	RENFROW4 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	153	0.07836	99.9	SPP-SWPS-02A
FDNS	03ALL	2	14G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07751	99.9	GEN531447 1-HOLCOMB GENERATOR
FDNS		3	2	14G	G11_020	FROM->TO	110	0.04745	219.9313	DBL-WICH-THI
FDNS	09ALL	2	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04736	111.2974	DBL-WICH-THI
FDNS		9	2	14G	G11_020	FROM->TO	110	0.04739	110.1004	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_020	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03807	131.9195	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_020	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03807	108.3648	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS		3	2	14G	G11_020	TO->FROM	398	0.03852	104.0607	G11-17T 345.00 - POST ROCK 345KV CKT 1
FNSL-Blown up	03ALL	2	14G	G11_020	-	Non-converged Contingency	-	0.25175	-	DBL-WICH-THI
FDNS		3	2	14G	G11_020	FROM->TO	330	0.03633	103.695	DBL-WICH-THI
FDNS	01NR	3	14G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05293	162.6324	DBL-WICH-THI

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	01NR		3	14G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.05293	173.0957	DBL-WICH-THI
FDNS	03ALL		0	14G	G11_022	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.03302	101.8867	BENTON - WICHITA 345KV CKT 1
FDNS		3	0	14G	G11_022	TO->FROM	CIRCLE - MULLERGREEN 230KV CKT 1	318.7	0.04759	116.3855	DBL-WICH-THI
FDNS	03ALL		0	14G	G11_022	TO->FROM	CIRCLE - MULLERGREEN 230KV CKT 1	318.7	0.04057	101.7766	DBL-BVR-WWRD
FDNS		3	0	14G	G11_022	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04243	115.9877	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_022	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04217	102.6753	DBL-WICH-THI
FDNS		3	0	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04243	213.7155	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04217	190.5343	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04273	178.5386	DBL-WICH-THI
FDNS	02G11_022		0	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0423	178.0483	DBL-WICH-THI
FDNS		2	0	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04241	165.7243	DBL-WICH-THI
FDNS		1	0	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04279	157.6022	DBL-WICH-THI
FDNS	04ALL		0	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04268	128.235	DBL-WICH-THI
FDNS	06ALL		0	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04258	121.5982	DBL-WICH-THI
FDNS		4	0	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04275	119.9346	DBL-WICH-THI
FDNS		6	0	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0426	117.0811	DBL-WICH-THI
FDNS	00G11_022		0	19WP	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0423	103.5812	DBL-WICH-THI
FDNS	00G11_022		0	14WP	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04219	100.9093	DBL-WICH-THI
FDNS	09ALL		0	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04281	100.7607	DBL-WICH-THI
FDNS		9	0	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04284	99.6	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_022	TO->FROM	FLATRDG3 - THISTLE4 138.00 138KV CKT 1	286	0.05544	100.1933	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_022	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.07956	118.9423	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_022	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.07983	112.5262	DBL-THIS-WWR
FDNS	02ALL		0	14G	G11_022	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.07827	102.466	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_022	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.073	102.2764	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07827	183.6191	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07197	176.049	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07886	174.3253	DBL-THIS-WWR
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07827	172.22	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07956	170.3555	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07833	167.3965	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0782	163.201	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07207	158.3452	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07983	157.5329	DBL-THIS-WWR
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07833	155.5471	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07898	154.0338	DBL-THIS-WWR
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0784	152.4117	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0782	150.4894	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07223	148.3517	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05824	148.208	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06039	147.9841	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0633	145.84	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0633	144.3366	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06389	144.1418	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06092	143.8222	SPP-SWPS-03
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06082	143.5601	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06082	143.5599	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06389	142.6931	SPP-SWPS-05
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06389	142.6063	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07216	142.2997	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06082	142.2793	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		1	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07933	142.2136	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	141.5129	GEN520997 1-MORLND2
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0784	139.9773	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06082	139.1049	SPP-SWPS-02A
FDNS	01ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.073	138.6221	DBL-WICH-THI
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07911	136.2059	DBL-THIS-WWR
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	135.2137	GEN520998 1-MORLND3
FDNS		3	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07846	135.2056	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06043	135.1175	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05739	135.1133	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06039	134.985	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05824	134.9439	SPP-AEPW-32
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	134.4502	BASE CASE
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06082	133.4836	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06082	133.4786	SPP-SWPS-02

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06082	133.4757	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06334	132.2879	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05883	132.2649	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05824	132.1212	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05823	132.1145	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06035	131.916	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06014	131.1244	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06013	131.1017	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	130.9774	GEN520997 1-MORLND2
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06334	130.5788	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05796	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05796	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06325	129.0896	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06088	129.0474	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06088	129.0459	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06098	129.0288	SPP-SWPS-03
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06088	127.971	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		1	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07981	127.868	DBL-THIS-WWR
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	127.6762	GEN520997 1-MORLND2
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06325	127.3742	DEWEY - IODINE 138KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06392	125.9157	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06088	125.3535	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05156	124.8118	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06392	124.7517	SPP-SWPS-05
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06392	124.6826	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	124.6009	GEN520998 1-MORLND3
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05902	124.5827	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06048	123.8168	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05791	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05791	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0552	123.2898	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05553	123.131	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05902	122.802	SPP-SWPS-04
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05902	122.7854	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS		3	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07846	122.4568	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05489	122.2617	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05552	122.1212	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	122.0695	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04962	122.0571	RENFROW4 138.00 - SAND RDG 138/138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05548	121.8925	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05744	121.7817	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06043	121.7714	WOODWARD - WOODWARD 69KV CKT 1
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05369	121.591	GEN520997 1-MORLND2
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05548	121.5425	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	121.4421	GEN520998 1-MORLND3
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05489	121.3287	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0552	121.2361	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	121.2182	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	121.1143	BASE CASE
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05568	120.8622	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	120.7092	GEN520922 1-SLEEPING BEAR
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.053	120.684	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05516	120.617	HOLCOMB - SETAB 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0583	120.6142	SPP-AEPW-32
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05544	120.5246	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05425	120.4514	CIMARRON - NORTHWEST 345KV CKT 1
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06339	120.3888	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	120.3218	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05493	119.9951	BENTON - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05502	119.7852	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06088	119.7466	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06088	119.7419	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06088	119.7076	SPP-SWPS-02
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05413	119.7075	SPP-MKEC-08
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05444	119.5288	AXTELL - POST ROCK 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05394	119.3931	SMOKYH6 230.00 - SUMMIT 230KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05409	119.3339	FLATRDG3 - HARPER 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05391	119.2566	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05832	119.2094	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05397	118.9963	CONWAY SUB - NICHOLS STATION 115KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05356	118.9218	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05502	118.9188	FARGO JCT - FT SUPPLY 69KV CKT 1
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06339	118.6589	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06035	118.6018	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0583	118.1618	SPP-SWPS-01
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0583	118.0705	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	117.9624	BASE CASE
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05541	117.776	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06019	117.731	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06018	117.7113	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05801	117.71	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05801	117.71	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		1	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07291	117.7097	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	116.875	NC1_GEN-NEBRASKA CITY 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.061	116.4118	SPP-SWPS-03
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06106	116.3194	SPP-SWPS-03
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06089	116.1909	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06089	116.1616	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06096	116.0721	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06096	116.0624	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05369	115.1849	GEN520998 1-MORLN2
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06089	115.1561	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06096	115.0646	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05324	114.7701	LYDIA - VALLIANT 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05324	114.7672	SPP-AEPW-01
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05272	114.6757	DOVER - TWIN LAKES 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	114.6522	GEN515365 1-CENT 21 34.500
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05406	114.6119	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05272	114.5736	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05149	114.5656	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	114.4248	GEN515393 1-OGEWND2G
FDNS	01ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0613	114.4161	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	114.3667	GEN524295 1-SPNSPUR_WND10.6900
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05325	114.3634	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	114.2644	GEN542957 1-IATAN UNIT #1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	114.0759	GEN562023 1-G11_020_3 0.6900
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	114.0759	GEN562026 1-G11_019_3 0.6900
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05158	113.9895	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.9858	GEN523461 1-BLACKHAWK GEN #1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.9346	GEN523462 1-BLACKHAWK GEN #2
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.9333	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.8879	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.8091	GEN523201 1-EXCELN4-WTG10.6000
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05235	113.8019	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.7048	GEN659111 2-LELAND OLDS UNIT2
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.6964	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.6432	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05541	113.6027	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.5946	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.5159	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.5159	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.2993	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.299	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.2776	GEN523122 1-NBLWND-WTG210.6900
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.2662	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05441	113.2099	GEN520997 1-MORLN2
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05531	113.2093	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.2023	GEN523121 1-NBLWND-WTG110.6900
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05741	113.2015	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.1601	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.16	GEN527161 1-MUSTANG GEN #1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.1298	GEN560584 1-G06-44-2 4.1600
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.1071	GEN523107 1-NOVUS_WND 14.1600
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.0653	GEN523123 1-NBLWWD-WTG310.6900
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	113.0469	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05531	112.9141	BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05204	112.8899	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	112.8791	GEN645012 2-NEBRASKA CITY 2
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04955	112.867	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	112.7727	GEN526334 1-JONES_4 116.500
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	112.682	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05204	112.6638	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06096	112.6578	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	112.6531	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	112.5882	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06089	112.573	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	112.5461	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05302	112.434	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	112.2396	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05904	112.2364	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	112.2181	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05441	112.1942	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	112.1788	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	112.1612	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05888	111.9801	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05555	111.9137	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	111.767	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	111.7181	GEN560585 1-G06-44-3 4.1600
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05546	111.7171	MINGO - SETAB 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04964	111.5043	RENFROW4 138.00 - SAND RDG 138138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05158	111.2455	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	111.1482	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0517	111.1262	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05562	110.9013	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05158	110.868	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	110.7293	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS		3	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06055	110.695	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS		3	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05375	110.5487	GEN520997 1-MORLN2
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06048	110.5068	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05904	110.4847	SPP-SWPS-04
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05904	110.4537	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	110.4023	GEN514805 1-SOONER UNIT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05524	110.2733	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05888	110.2642	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05493	110.1457	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05888	110.0802	SPP-SWPS-04
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05549	110.0401	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05158	110.016	DEWEY - SOUTHARD 138KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05832	109.8656	SPP-AEPW-32
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0575	109.7937	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05549	109.7535	BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	109.6985	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05557	109.6733	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05059	109.6092	BYRON 138 138.00 - SANDY_CN 138138.00 138KV CKT 1
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05369	109.5808	BASE CASE
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05336	109.3923	MOORELAND - TALOGA 138KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05303	109.3585	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	109.2651	GEN560286 1-G10-01-1WTG 0.6900
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	109.2651	GEN560287 1-G10-01-2WTG 0.6900
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	109.1648	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04955	109.1152	SAND RDG 138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	109.1151	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05493	109.0988	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	108.988	GEN560371 1-G07-46 6.9000
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05428	108.9124	CIMARRON - NORTHWEST 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	108.8202	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	108.8198	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	108.7981	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	108.6938	GEN560256 1-G10-14-1 0.6900
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05302	108.6392	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	108.6111	GEN514806 1-SOONER UNIT 2
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05524	108.5985	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05059	108.5061	BYRON 138 138.00 - C CITY 138 138.00 138KV CKT 1
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	108.4811	GEN560257 1-G10-14-2 0.6900
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05441	108.4444	GEN520922 1-SLEEPING BEAR
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05573	108.4311	MINGO - RED WILLOW 345KV CKT 1
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05547	108.3685	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05339	108.23	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0552	108.1923	HOLCOMB - SETAB 345KV CKT 1
FDNS	2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06399	108.1735	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05488	108.0776	BENTON - WICHITA 345KV CKT 1
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05496	108.0365	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	107.9542	GEN514805 1-SOONER UNIT 1
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05506	107.9376	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05059	107.9232	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05296	107.8931	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05417	107.8689	SPP-MKEC-08
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05513	107.8325	HOLCOMB - SETAB 345KV CKT 1
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04964	107.8224	SAND RDG 138138.00 - WAKITA 138 138.00 138KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05391	107.7264	MULLERGEN - SPEARVILLE 230KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05831	107.628	SPP-SWPS-01
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05413	107.5864	FLATRDG3 - HARPER 138KV CKT 1
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05448	107.5584	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05395	107.4894	CIRCLE - MULLERGEN 230KV CKT 1
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05397	107.4403	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06098	107.4205	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05839	107.4107	SPP-AEPW-32
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06097	107.3911	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05394	107.378	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05359	107.3346	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	107.2897	GEN531447 1-HOLCOMB GENERATOR
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06089	107.2887	SPP-SWPS-02
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06089	107.2835	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06089	107.2265	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05832	107.1671	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05441	107.1278	GEN520998 1-MORLND3
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	106.9477	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06096	106.9384	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06096	106.9038	SPP-SWPS-02
FDNS	2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06096	106.8963	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	106.8781	GEN562042 1-G11_014_3 0.6900
FDNS	2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06399	106.87	SPP-SWPS-05
FDNS	2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06399	106.8115	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	3	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06345	106.7211	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04963	106.7179	DOVER SW - OKEENE 138KV CKT 1
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04911	106.6253	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0542	106.4488	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	106.4187	GEN520922 1-SLEEPING BEAR
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	106.2906	GEN514806 1-SOONER UNIT 2
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05387	106.289	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05405	106.1515	FLATRDG3 - HARPER 138KV CKT 1
FDNS	2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05806	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05806	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06427	106.0575	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0539	105.9641	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06026	105.6216	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0541	105.6032	SPP-MKEC-08
FDNS	2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06024	105.6023	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05541	105.5608	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05388	105.4984	AXTELL - PAULINE 345KV CKT 1
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	105.2824	NC1_GEN-NEBRASKA CITY 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05426	105.2393	BENTON - ROSE HILL 345KV CKT 1	
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04852	105.2351	WOODWARD DISTRICT EHV (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05405	105.0996	HARPER - MILAN TAP 138KV CKT 1	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05499	105.0078	FARGO JCT - WOODWARD 69KV CKT 1	
FDNS		3	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06345	105.0006	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05386	104.9628	MOORE - PAULINE 345KV CKT 1	
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05838	104.9462	SPP-SWPS-01
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05492	104.9454	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05053	104.9413	SANDY_CN_138138.00 - WAKITA_138_138.00 138KV CKT 1	
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05839	104.9062	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05405	104.8119	SPP-MKEC-03B	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	104.7776	WRTOD400	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05405	104.7607	CLEARWATER - MILAN TAP 138KV CKT 1	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05405	104.7465	SPP-MKEC-03A	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05405	104.6971	SPP-MKEC-05	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	104.6597	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1	
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05161	104.5488	RENFROW7_345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06427	104.4125	DEWEY - IODINE 138KV CKT 1	
FDNS		3	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05375	104.1841	GEN520998 1-MORLND3
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07956	104.0335	TATONGA7_345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	103.9699	GEN525562 1-TOLK GEN #2 24 KV	
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05623	103.9327	DEWEY - TALOGA 138KV CKT 1	
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04559	103.8072	BEAVER CO_345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04559	103.8072	BEAVER CO_345.00 - WOODWARD DISTRICT EHV 345KV CKT 2	
FDNS	06ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07746	103.6571	NORTHWEST - TATONGA7_345.00 345KV CKT 1	
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	103.6376	GEN562017 1-G11_022_3_0.6900	
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05441	103.4526	BASE CASE	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	103.3156	GEN560221 1-G07-62-1_0.6900	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	103.3156	GEN560222 1-G07-62-2_0.6900	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	103.3156	GEN560223 1-G07-62-3_0.6900	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	103.3156	GEN560224 1-G07-62-4_0.6900	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	103.2849	CIMARRON - MATHWSN7_345.00 345KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05275	103.1601	DOVER - TWIN LAKES 138KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	103.1528	GEN524295 1-SPNSPUR_WND10.6900	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05275	103.0664	DOVER - DOVER SW 138KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.9977	GEN515365 1-CENT 21_34.500	
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05612	102.9651	BORDER_7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05329	102.9563	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05409	102.8858	IODINE - MOORELAND 138KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.8662	GEN523461 1-BLACKHAWK GEN #1	
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	102.8572	GEN525561 1-TOLK GEN #1 24 KV	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.8228	GEN523462 1-BLACKHAWK GEN #2	
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05486	102.7939	FT SUPPLY - IODINE 138KV CKT 1	
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05361	102.786	GEN560121 1-G08-47_0.5750	
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05612	102.7812	BORDER_7345.00 - TUCCO INTERCHANGE 345KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.6327	EASTDC - WELSH 345KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.6223	GEN542957 1-IATAN UNIT #1	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	102.5425	NC1_GEN-NEBRASKA CITY 1	
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04782	102.5232	WOODWARD - WOODWARD EHV 138KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.5067	GEN515393 1-OGEWND2G	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05238	102.4581	WOODWARD - WOODWARD EHV 138KV CKT 2	
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04764	102.4211	IMO TAP - MEN TAP 138KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.4051	GEN562023 1-G11_020_3_0.6900	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.4051	GEN562026 1-G11_019_3_0.6900	
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04966	102.3731	RENFROW4_138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.3654	GEN645001 1-FORT CALHOUN 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.2251	GEN659111 2-LELAND OLDS UNIT2	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.2204	GEN523122 1-NBLWND-WTG210.6900	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.1653	GEN523121 1-NBLWND-WTG110.6900	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.1395	GEN539670 4-JUDSON LARGE GENERATOR	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.094	GEN560584 1-G06-44-2_4.1600	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.0837	GEN523107 1-NOVUS_WND_14.1600	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.0749	GEN527162 1-MUSTANG GEN #2	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.0748	GEN527161 1-MUSTANG GEN #1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.0697	GEN645011 1-NEBRASKA CITY 1	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FNSL	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.0395	GEN659103 1-ANTELOPE VALLEY UNIT1	
FNSL	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.0395	GEN659107 2-ANTELOPE VALLEY UNIT2	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.0385	GEN523123 1-NBLWWD-WTG310.6900	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	102.0231	GEN542962 2-IATAN UNIT #2	
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0613	101.8689	WOODWARD - WOODWARD 69KV CKT 1	
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05557	101.8316	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04764	101.7071	CLEO CORNER - MEN TAP 138KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	101.6977	GEN526334 1-JONES 4 116.500	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	101.6964	GEN527902 1-HOBBS PLANT #2 (CT)	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	101.6718	GEN527901 1-HOBBS PLANT #1 (CT)	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	101.5966	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	101.5963	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	101.5833	GEN527163 1-MUSTANG GEN #3 22 KV	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	101.571	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05207	101.4713	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	101.3673	GEN645012 2-NEBRASKA CITY 2	
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05881	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05881	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS		1	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05428	101.3079	GEN520997 1-MORLND2
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	101.2971	GEN560586 1-G06-44-4 4.1600	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	101.2697	GEN527882 1-CUNNINGHAM GEN #2 20 KV	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05207	101.2584	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1	
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05486	101.2211	IODINE - MOORELAND 138KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	101.1116	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1	
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05235	101.0241	MOREWOOD SW - NINE MILE 138KV CKT 1	
FDNS	01ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05932	100.993	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	100.975	GEN640009 1-COOPER NUCLEAR STATION	
FDNS	02NR	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03622	100.9725	SPP-SWPS-04	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	100.9044	GEN560585 1-G06-44-3 4.1600	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	100.8429	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	100.7881	GEN526331 1-JONES GEN #1 22 KV	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	100.7874	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1	
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05905	100.7059	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05235	100.6702	MOORELAND - NINE MILE 138KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05306	100.6206	MOREWOOD SW - RED HILLS WIND 138KV CKT 1	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.568	GEN560221 1-G07-62-1 0.6900	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.568	GEN560222 1-G07-62-2 0.6900	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.568	GEN560223 1-G07-62-3 0.6900	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.568	GEN560224 1-G07-62-4 0.6900	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.5067	GEN524295 1-SPNSPUR_WND10.6900	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.4515	GEN523461 1-BLACKHAWK GEN #1	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.4135	GEN523462 1-BLACKHAWK GEN #2	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.4021	GEN560522 1-G05-12-2 0.6900	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	100.3852	IODINE - MOORELAND 138KV CKT 1	
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05369	100.3493	GEN514805 1-SOONER UNIT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.3269	GEN531208 1-FLTRDG-WG1 0.6000	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.2757	GEN515365 1-CENT 21 34.500	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	100.2751	GEN526332 1-JONES GEN #2 21 KV	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05269	100.2693	DOVER - TWIN LAKES 138KV CKT 1	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.2604	GEN539670 4-JUDSON LARGE GENERATOR	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.2548	GEN562017 1-G11_022_3 0.6900	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05269	100.1809	DOVER - DOVER SW 138KV CKT 1	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05322	100.1638	KNOBHILL (KNOBHILA) 138/69/13.2KV TRANSFORMER CKT 1	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.1086	GEN560121 1-G08-47 0.5750	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100.067	GEN542957 1-IATAN UNIT #1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	100	GEN527903 1-HOBBS PLANT #3 (ST)	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	100	GEN560286 1-G10-01-1WTG 0.6900	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	100	GEN560287 1-G10-01-2WTG 0.6900	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100	GEN531459 2-S2 GENERATOR	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100	GEN539762 1-SSWIND 1 34.500	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	100	GEN560267 1-G10-15-1 0.6900	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.917	EASTDC - WELSH 345KV CKT 1	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05365	99.9	GEN560371 1-G07-46 0.6900	
FDNS	02G11_022	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05173	99.9	CLINTON JUNCTION - ELK CITY 138KV CKT 1	
FDNS	03ALL	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.9	GEN539785 1-ENSGW 1 0.5750	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.9	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05199	99.9	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02G11_022		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05161	99.8	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.8	GEN515393 1-OGEWND2G
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.8	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.8	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.8	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.8	GEN645001 1-FORT CALHOUN 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05232	99.8	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05369	99.7	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.7	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.7	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05199	99.7	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.6	GEN560696 1-G11-008-4 0.6900
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05549	99.5	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		2	0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05307	99.5	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.5	GEN526334 1-JONES_4 116.500
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.5	GEN542962 2-IATAN UNIT #2
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.5	GEN645011 1-NEBRASKA CITY 1
FDNS	03ALL		0	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05358	99.5	GEN659111 2-LELAND OLDS UNIT2
FDNS		3	0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04243	223.9645	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04217	200.8338	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04273	188.9328	DBL-WICH-THI
FDNS	02G11_022		0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0423	188.4424	DBL-WICH-THI
FDNS		2	0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04241	176.1806	DBL-WICH-THI
FDNS		1	0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04279	168.0853	DBL-WICH-THI
FDNS	04ALL		0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04268	138.7306	DBL-WICH-THI
FDNS	06ALL		0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04258	132.2025	DBL-WICH-THI
FDNS		4	0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04275	130.4421	DBL-WICH-THI
FDNS		6	0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0426	127.685	DBL-WICH-THI
FDNS	00G11_022		0	19WP	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0423	115.0765	DBL-WICH-THI
FDNS	09ALL		0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04281	111.2997	DBL-WICH-THI
FDNS	00G11_022		0	14WP	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04219	111.1972	DBL-WICH-THI
FDNS		9	0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04284	110.1027	DBL-WICH-THI
FDNS		13	0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0429	106.7686	DBL-WICH-THI
FDNS	13ALL		0	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04292	106.1697	DBL-WICH-THI
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04834	114.6679	OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04834	114.4495	HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04834	112.1608	OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04834	112.0277	HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.06393	108.7577	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.06393	108.1416	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.06393	106.8952	SPP-SWPS-04
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.06393	106.5144	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.06393	106.4518	SPP-SWPS-04
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.06393	106.0734	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04269	104.6577	MOORE COUNTY INTERCHANGE (ENRCO 136402) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.05375	103.8189	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	00NR		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.1573	103.5923	SPP-SWPS-04
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04269	103.1398	MOORE COUNTY INTERCHANGE (ENRCO 136402) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022		0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.05375	103.121	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.1573	102.8717	SPP-SWPS-04
FDNS	0	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04805	102.4132	OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	0	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04805	102.1927	HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1
FDNS	00G11_022	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.03959	102.179	BASE CASE
FDNS	00G11_022	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.03959	101.3447	BASE CASE
FDNS	00G11_022	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.03959	100.1737	GEN525562 1-TOLK GEN #2 24 KV
FDNS	00G11_022	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.03941	100.0941	OCHILTREE - TRI COUNTY REC-COLE 115KV CKT 1
FDNS	0	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04805	100.0532	OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	0	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04805	99.9	HITCHLAND INTERCHANGE - OCHILTREE 230KV CKT 1
FDNS	00G11_022	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.03959	99.7	GEN525562 1-TOLK GEN #2 24 KV
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.09755	99.7	BASE CASE
FDNS	00NR	0	24SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.13219	99.6	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	3	0	14G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.04338	113.5448	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL	0	14G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03086	112.0896	POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1
FDNS	3	0	14G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03171	110.5621	DBL-IRON-CLR
FDNS	3	0	14G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.0462	100.7172	DBL-WICH-THI
FDNS	03ALL	0	14G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03206	100.6331	MINGO - SETAB 345KV CKT 1
FNSL-Blown up	3	0	14G	G11_022	-	Non-converged Contingency	-	0.0357	-	DBL-THIS-CLR
FNSL-Blown up	02ALL	0	14G	G11_022	-	Non-converged Contingency	-	0.49463	-	DBL-BVR-WWRD
FNSL-Blown up	02G11_022	0	14G	G11_022	-	Non-converged Contingency	-	0.49519	-	DBL-BVR-WWRD
FNSL-Blown up	03ALL	0	14G	G11_022	-	Non-converged Contingency	-	0.22167	-	DBL-WICH-THI
FNSL-Blown up	03ALL	0	14G	G11_022	-	Non-converged Contingency	-	0.03434	-	DBL-IRON-CLR
FNSL-Blown up	03ALL	0	14G	G11_022	-	Non-converged Contingency	-	0.03434	-	DBL-SPRVL-CL
FNSL-Blown up	03ALL	0	14G	G11_022	-	Non-converged Contingency	-	0.03434	-	DBL-THIS-CLR
FDNS	01ALL	0	14G	G11_022	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.2572	102.794	DBL-THIS-WWR
FDNS	3	0	14G	G11_022	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.04039	109.4862	DBL-WICH-THI
FDNS	04ALL	0	14G	G11_022	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.04073	106.648	DBL-WICH-THI
FDNS	04ALL	0	14G	G11_022	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03016	102.332	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL	0	14G	G11_022	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03554	100	DBL-BVR-WWRD
FDNS	00NR	0	24SP	G11_022	FROM->TO	TUCXFR345230	300	0.1766	100	BASE CASE
FDNS	03ALL	2	14G	G11_022	TO->FROM	CHISHOLM - MAIZEE 4 138.00 138KV CKT 1	287	0.03503	99.8	BENTON - WICHITA 345KV CKT 1
FNSL	03ALL	2	14G	G11_022	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.04054	120.7977	DBL-IRON-CLR
FDNS	3	2	14G	G11_022	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.041	117.9935	DBL-THIS-CLR
FDNS	3	2	14G	G11_022	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.05423	109.6434	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_022	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.03578	108.6629	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.03507	101.1639	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.04054	100.9951	DBL-SPRVL-CL
FDNS	03ALL	2	14G	G11_022	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.03578	100.9819	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.03221	100.9786	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.03221	100.9786	CLARKCOUNTY7345.00 - THISTLE7 345.00 345KV CKT 2
FDNS	3	2	14G	G11_022	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.04345	113.6224	DBL-WICH-THI
FDNS	3	2	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04345	209.5236	DBL-WICH-THI
FDNS	09ALL	2	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04281	100.7582	DBL-WICH-THI
FDNS	9	2	14G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04284	99.6	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07157	172.8268	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07157	160.6288	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06845	152.9735	DBL-WICH-THI
FDNS	3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0718	142.7618	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05566	140.3486	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05835	137.81	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05835	136.0836	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	135.3819	GEN520997 1-MORLND2
FDNS	3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0718	130.3082	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05386	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05386	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	129.0801	GEN520998 1-MORLND3
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05347	126.9997	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05117	126.9983	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05566	126.8514	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	126.4388	BASE CASE
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05599	124.8549	SPP-SWPS-03
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0559	124.7372	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0559	124.6975	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05193	124.4786	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0559	123.9346	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0559	121.5078	SPP-SWPS-02A
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04778	121.2965	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05282	121.0796	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05124	120.0462	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05193	119.9158	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05124	119.8413	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04602	119.2676	RENFROW4 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05421	119.2017	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05049	118.3679	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05347	117.9566	SPP-AEPW-32
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05169	117.8226	MINGO - SETAB 345KV CKT 1
FDNS	3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05583	117.744	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05117	117.6146	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05421	117.4292	SPP-SWPS-04
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05421	117.3087	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05188	116.9412	MINGO - RED WILLOW 345KV CKT 1
FDNS	3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04958	116.7216	GEN520997 1-MORLND2
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0559	115.9103	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0559	115.8725	SPP-SWPS-02
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0559	115.867	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05346	115.5472	SPP-SWPS-01
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05083	115.5094	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04602	115.487	SAND RDG_138138.00 - WAKITA_138 138.00 138KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05347	115.2876	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	115.1958	GEN514805 1-SOONER UNIT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04895	115.0158	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04989	115.0003	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	114.3959	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04992	114.287	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05129	114.1293	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04997	114.045	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	113.8484	GEN520922 1-SLEEPING BEAR
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05001	113.8214	CIMARRON - NORTHWEST 345KV CKT 1
FDNS	3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05853	113.8039	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	113.4433	GEN514806 1-SOONER UNIT 2
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0511	113.2797	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04979	113.1855	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04993	113.162	FLATRDG3 - HARPER 138KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04993	113.0242	SPP-MKEC-08
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04989	112.6675	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05072	112.5959	FARGO JCT - WOODWARD 69KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04993	112.5058	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04981	112.4511	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05065	112.2746	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04993	112.2052	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04993	112.2009	SPP-MKEC-03B
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05019	112.1649	BENTON - ROSE HILL 345KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04993	112.1641	SPP-MKEC-05
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04993	112.1598	SPP-MKEC-03A
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04979	112.0827	MOORE - PAULINE 345KV CKT 1
FDNS	3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05853	112.073	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04993	112.0386	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	111.9995	GEN520947 1-HUGO1
FDNS	03ALL	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	111.988	GEN515225 1-MUSKOGEE 5G

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	111.9783	GEN515226 1-MUSKOGEE 6G
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04958	110.3004	GEN520998 1-MORLND3
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	109.9108	NC1_GEN-NEBRASKA CITY 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.9478	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.9478	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.9478	GEN560223 1-G07-62-3 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.9478	GEN560224 1-G07-62-4 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.784	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04986	107.7785	IODINE - MOORELAND 138KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04905	107.7362	LYDIA - VALLIANT 345KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04904	107.7337	SPP-AEPW-01
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.6833	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.6824	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.6703	GEN560121 1-G08-47 0.5750
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.6304	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.6248	GEN515365 1-CENT 21 34.500
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04858	107.5373	DOVER - TWIN LAKES 138KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05376	107.4899	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05377	107.4837	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04909	107.4484	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04858	107.4333	DOVER - DOVER SW 138KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.396	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.3959	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.2702	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.2461	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.2384	GEN539785 1-ENSGW 1 0.5750
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.2265	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.2051	GEN531459 2-S2 GENERATOR
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.1653	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04926	107.1636	MATHWSN7 345.00 - WOODRING 345KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.1339	GEN515393 1-OGEWND2G
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.128	GEN526334 1-JONES 4 116.500
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.0445	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.0445	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.0243	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	107.005	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04826	106.9716	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04796	106.9489	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05241	106.9355	SPP-SWPS-05
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.9089	GEN560696 1-G11-008-4 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.8913	GEN645001 1-FORT CALHOUN 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05241	106.8565	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.8361	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.8148	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.7561	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04796	106.7298	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04926	106.713	CIMARRON - MATHWSN7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.6583	GEN542962 2-IATAN UNIT #2
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.6473	GEN659111 2-LELAND OLDS UNIT2
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.5948	GEN645011 1-NEBRASKA CITY 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.4527	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.4527	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.4106	GEN526331 1-JONES GEN #1 22 KV
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.2382	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.2378	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.2074	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.0987	GEN560695 1-G11-008-3 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.021	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.0123	GEN526332 1-JONES GEN #2 21 KV
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	106.0014	GEN542902 1-GPW_G1 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04765	105.9606	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	105.8824	GEN560694 1-G11-008-2 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	105.8687	GEN645012 2-NEBRASKA CITY 2
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	105.8022	GEN560514 1-G04_014 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	105.5261	GEN640009 1-COOPER NUCLEAR STATION
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04682	105.5131	BYRON_138 138.00 - SANDY_CN_138138.00 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	105.3724	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	105.3523	GEN539807 1-G05-12 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	105.169	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	105.082	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	105.029	GEN560238 1-G10-09 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	104.6932	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	104.693	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	104.6785	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	104.6111	GEN560659 1-G07-38 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	104.5684	GEN562035 1-G11_016_3 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	104.5501	GEN560432 1-G08-124 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	104.533	GEN560693 1-G11-008-1 0.6900
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05366	104.4333	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	104.4133	GEN560549 1-G06-06 0.6900
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05404	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05404	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05583	104.1408	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04682	104.1072	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04753	104.1048	EL RENO - ROMAN NOSE 138KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	104.0766	GEN560329 1-G10-45 0.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	104.0657	GEN531503 1-CIMRRN 1 34.500
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04682	103.7582	C_CITY_138 138.00 - KNOBHILL 138KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04753	103.7241	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04958	103.4279	BASE CASE
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04753	103.0744	DEWEY - SOUTHARD 138KV CKT 1
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05618	102.9807	SPP-SWPS-03
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05609	102.9398	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05609	102.9342	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	102.7291	GEN523117 1-BUFF_DUNES210.6900
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04188	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04188	102.6775	BEAVER CO 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05364	102.4598	BEAVER CO 345.00 - BUCKNER7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	102.4369	GEN562032 1-G11_017_3 0.6900
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05207	102.1895	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05609	102.1802	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04919	101.9373	MOORELAND - TALOGA 138KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06502	101.9149	DBL-THIS-WWR
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	101.8124	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04883	101.7384	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04792	101.5448	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	101.3654	GEN525561 1-TOLK GEN #1 24 KV
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	101.2021	GEN525562 1-TOLK GEN #2 24 KV
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04578	100.712	DOVER SW - OKEENE 138KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04526	100.161	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05299	100.1259	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04614	100.0978	RENFROW4 138.00 - SAND RDG_138138.00 138KV CKT 1
FDNS		3	2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05609	99.9	SPP-SWPS-02A
FDNS	03ALL		2	14G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	99.9	GEN531447 1-HOLCOMB GENERATOR
FDNS		3	2	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04345	219.9313	DBL-WICH-THI
FDNS	09ALL		2	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04281	111.2974	DBL-WICH-THI
FDNS		9	2	14G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.04284	110.1004	DBL-WICH-THI
FDNS	03ALL		2	14G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.05304	131.9195	G11-17T 345.00 - POST ROCK 345KV CKT 1
FNSL	03ALL		2	14G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.04509	114.9839	DBL-IRON-CLR
FDNS		3	2	14G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.04549	113.1846	DBL-THIS-CLR
FDNS	03ALL		2	14G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.05304	108.3648	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS		3	2	14G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.05349	104.0607	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03984	101.3946	POST ROCK (POSTROCK T1) 345/230/13.8KV TRANSFORMER CKT 1
FNSL-Blown up	03ALL		2	14G	G11_022	-	Non-converged Contingency	-	0.22551	-	DBL-WICH-THI
FNSL-Blown up	03ALL		2	14G	G11_022	-	Non-converged Contingency	-	0.09279	-	DBL-THIS-CLR
FNSL	03ALL		2	14G	G11_022	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03578	115.3092	DBL-IRON-CLR
FDNS		3	2	14G	G11_022	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03616	112.5026	DBL-THIS-CLR
FDNS	03ALL		2	14G	G11_022	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.03594	110.6659	AXTELL - POST ROCK 345KV CKT 1
FDNS	03ALL		2	14G	G11_022	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.0325	103.8977	CIRCLE - MULLERGREN 230KV CKT 1
FDNS		3	2	14G	G11_022	FROM->TO	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	330	0.04598	103.695	DBL-WICH-THI
FDNS	00NR		3	24SP	G11_022	TO->FROM	INDIANA SUB - STANTON SUB 115KV CKT 1	160	0.04695	99	CARLSLE INTERCHANGE (WH_XHS70711) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00G11_025		0	24SP	G11_025	TO->FROM	ALLEN SUB - LUBBOCK SOUTH INTERCHANGE 115KV CKT 1	160	0.0627	103.4983	LUBBOCK SOUTH INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		0	0	24SP	G11_025	TO->FROM	ALLEN SUB - LUBBOCK SOUTH INTERCHANGE 115KV CKT 1	160	0.0627	100.5757	LUBBOCK SOUTH INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1
FDNS	00G11_025		0	14SP	G11_025	TO->FROM	BAILEY COUNTY REC-EARTH INTERCHANGE - PLANT X STATION 115KV CKT 1	160	0.04751	102.4623	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS		0	0	14SP	G11_025	TO->FROM	BAILEY COUNTY REC-EARTH INTERCHANGE - PLANT X STATION 115KV CKT 1	160	0.04752	100.0758	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS		3	0	14G	G11_025	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.03023	115.9877	DBL-WICH-THI
FDNS		3	0	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03023	213.7155	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03054	178.5386	DBL-WICH-THI
FDNS		2	0	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03022	165.7243	DBL-WICH-THI
FDNS		1	0	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0306	157.6022	DBL-WICH-THI
FDNS	04ALL		0	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03049	128.235	DBL-WICH-THI
FDNS	06ALL		0	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03038	121.5982	DBL-WICH-THI
FDNS		4	0	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03056	119.9346	DBL-WICH-THI
FDNS	06G11_025		0	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03041	117.4704	DBL-WICH-THI
FDNS		6	0	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03041	117.0811	DBL-WICH-THI
FDNS	09ALL		0	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03061	100.7607	DBL-WICH-THI
FDNS		9	0	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03065	99.6	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_025	TO->FROM	FLATRDG3 - THISTLE4 138.00 138KV CKT 1	286	0.04288	100.1933	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_025	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.0477	118.9423	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_025	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.05494	112.5262	DBL-THIS-WWR
FDNS	02ALL		0	14G	G11_025	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04641	102.466	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_025	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04477	102.2764	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04641	183.6191	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04374	176.049	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05397	174.3253	DBL-THIS-WWR
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04641	172.22	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0477	170.3555	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04634	163.201	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05494	157.5329	DBL-THIS-WWR
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04654	152.4117	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04634	150.4894	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.044	148.3517	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05076	148.208	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03441	147.9841	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	145.84	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03609	144.3366	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03586	144.1418	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04178	143.8222	SPP-SWPS-03
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04162	143.5601	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04162	143.5599	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03586	142.6931	SPP-SWPS-05
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03586	142.6063	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04392	142.2997	DBL-WICH-THI
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04162	142.2793	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS		1	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04747	142.2136	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	141.5129	GEN520997 1-MORLND2
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04654	139.9773	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04162	139.1049	SPP-SWPS-02A
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04477	138.6221	DBL-WICH-THI
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05422	136.2059	DBL-THIS-WWR
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	135.2137	GEN520998 1-MORLND3
FDNS		3	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0466	135.2056	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03639	135.1133	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03441	134.985	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05076	134.9439	SPP-AEPW-32
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	134.4502	BASE CASE
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04162	133.4836	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04162	133.4786	SPP-SWPS-02
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04162	133.4757	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05076	132.1212	OKLAUNION - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05008	132.1145	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03437	131.916	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03659	131.1244	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03658	131.1017	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03365	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03365	130.2269	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03604	129.0896	IODINE - WOODWARD EHV 138KV CKT 1
FDNS		1	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05492	127.868	DBL-THIS-WWR

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	127.6762	GEN520997 1-MORLND2	
FDNS	03ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03604	127.3742	DEWEY - IODINE 138KV CKT 1	
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0345	123.8168	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03361	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 1	
FDNS	03ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03361	123.6489	THISTLE7 345.00 - WICHITA 345KV CKT 2	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03119	123.2898	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03003	123.131	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1	
FDNS		3	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0466	122.4568	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03143	122.2617	G11-17T 345.00 - POST ROCK 345KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03168	122.1212	MINGO - SETAB 345KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	122.0695	GEN514805 1-SOONER UNIT 1	
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0306	121.591	GEN520997 1-MORLND2
FDNS	03ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	121.4421	GEN520998 1-MORLND3	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03143	121.3287	G11-17T 345.00 - SPEARVILLE 345KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03119	121.2361	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	121.2182	GEN515787 1-OKLA WIND ENERGY CENTER	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03182	120.8622	MINGO - RED WILLOW 345KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	120.7092	GEN520922 1-SLEEPING BEAR	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03005	120.684	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03146	120.617	HOLCOMB - SETAB 345KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03129	120.5246	DEWEY - TALOGA 138KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03005	120.4514	CIMARRON - NORTHWEST 345KV CKT 1	
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03618	120.3888	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	120.3218	GEN514806 1-SOONER UNIT 2	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03142	119.9951	BENTON - WICHITA 345KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03141	119.7852	FARGO JCT - WOODWARD 69KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03093	119.7075	SPP-MKEC-08	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03117	119.5288	AXTELL - POST ROCK 345KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03071	119.3931	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03086	119.3339	FLATRDG3 - HARPER 138KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03072	119.2566	GRAND ISLAND - SWEETWATER 345KV CKT 1	
FDNS	03ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05085	119.2094	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03106	118.9963	CONWAY SUB - NICHOLS STATION 115KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0308	118.9218	ELK CITY - FALCON ROAD 138KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03141	118.9188	FARGO JCT - FT SUPPLY 69KV CKT 1	
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03618	118.6589	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03437	118.6018	WOODWARD - WOODWARD 69KV CKT 1	
FDNS	03ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	117.9624	BASE CASE	
FDNS		1	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04467	117.7097	DBL-WICH-THI
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	116.875	NC1_GEN-NEBRASKA CITY 1	
FDNS	03ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04186	116.4118	SPP-SWPS-03	
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04192	116.3194	SPP-SWPS-03
FDNS	03ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04169	116.1909	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	
FDNS	03ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04169	116.1616	ELK CITY 230KV - SWEETWATER 230KV CKT 1	
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04175	116.0721	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04175	116.0624	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0306	115.1849	GEN520998 1-MORLND3
FDNS	03ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04169	115.1561	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04175	115.0646	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03002	114.7701	LYDIA - VALLIANT 345KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03001	114.7672	SPP-AEPW-01	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	114.6522	GEN515365 1-CENT 21 34.500	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03065	114.6119	IODINE - MOORELAND 138KV CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	114.4248	GEN515393 1-OGEEWIND2G	
FDNS	01ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03531	114.4161	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	114.3667	GEN524295 1-SPNSPUR_WND10.6900	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03027	114.3634	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	114.2644	GEN542957 1-IATAN UNIT #1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	114.0759	GEN562023 1-G11_020_3 0.6900	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	114.0759	GEN562026 1-G11_019_3 0.6900	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.9858	GEN523461 1-BLACKHAWK GEN #1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.9346	GEN523462 1-BLACKHAWK GEN #2	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.9333	GEN539670 4-JUDSON LARGE GENERATOR	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.8879	GEN645001 1-FORT CALHOUN 1	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.8091	GEN523201 1-EXCELN4-WTG10.6000	
FDNS	02ALL	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.7048	GEN659111 2-LELAND OLDS UNIT2	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.6964	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.6432	EASTDC - WELSH 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.5946	GEN645011 1-NEBRASKA CITY 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.5159	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.5159	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.2993	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.299	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.2776	GEN523122 1-NBLWWD-WTG210.6900
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.2662	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03133	113.2099	GEN520997 1-MORLND2
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.2023	GEN523121 1-NBLWWD-WTG110.6900
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03641	113.2015	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.1601	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.16	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.1298	GEN560584 1-G06-44-2 4.1600
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.1071	GEN523107 1-NOVUS WND 14.1600
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.0653	GEN523123 1-NBLWWD-WTG310.6900
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	113.0469	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	112.8791	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	112.7727	GEN526334 1-JONES 4 116.500
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	112.682	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL	2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04175	112.6578	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	112.6531	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	112.5882	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04169	112.573	SPP-SWPS-02A
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	112.5461	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	112.434	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	112.2396	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	112.2181	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03133	112.1942	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	112.1788	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	112.1612	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	111.767	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	111.7181	GEN560585 1-G06-44-3 4.1600
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03163	111.7171	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	111.1482	GEN526332 1-JONES GEN #2 21 KV
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03176	110.9013	MINGO - RED WILLOW 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	110.7293	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS		3	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03456	110.695	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS		3	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03067	110.5487	GEN520997 1-MORLND2
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0345	110.5068	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05085	109.8656	SPP-AEPW-32
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0365	109.7937	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0306	109.5808	BASE CASE
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03037	109.3923	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	109.2651	GEN560286 1-G10-01-1WTG 0.6900
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	109.2651	GEN560287 1-G10-01-2WTG 0.6900
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	109.1151	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	108.988	GEN560371 1-G07-46 0.6900
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	108.8202	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	108.8198	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	108.7981	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	108.6938	GEN560256 1-G10-14-1 0.6900
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03343	108.6392	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	108.481	GEN560257 1-G10-14-2 0.6900
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03133	108.4444	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03067	108.23	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03596	108.1735	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03137	108.0776	BENTON - WICHITA 345KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	107.9542	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03001	107.8931	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03143	107.8325	HOLCOMB - SETAB 345KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03071	107.7264	MULLERGREN - SPEARVILLE 230KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05016	107.628	SPP-SWPS-01
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03069	107.4894	CIRCLE - MULLERGREN 230KV CKT 1
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03743	107.4205	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05091	107.4107	SPP-AEPW-32
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03742	107.3911	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	107.2897	GEN531447 1-HOLCOMB GENERATOR
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04169	107.2887	SPP-SWPS-02
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04169	107.2835	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04169	107.2265	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05085	107.1671	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03133	107.1278	GEN520998 1-MORLND3
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	106.9477	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04175	106.9384	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04175	106.9038	SPP-SWPS-02
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04175	106.8963	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	106.8781	GEN562042 1-G11_014_3 0.6900
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03596	106.87	SPP-SWPS-05
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03596	106.8115	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS		3	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03624	106.7211	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	106.4187	GEN520922 1-SLEEPING BEAR
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	106.2906	GEN514806 1-SOONER UNIT 2
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03068	106.289	GRAND ISLAND - SWEETWATER 345KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03083	106.1515	FLATRDG3 - HARPER 138KV CKT 1
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03376	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03376	106.0585	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03706	106.0575	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03067	105.9641	KNOLL 230 - SMOKYHL6 230.00 230KV CKT 1
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03671	105.6216	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0309	105.6032	SPP-MKEC-08
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0367	105.6023	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03125	105.5608	DEWEY - TALOGA 138KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0307	105.4984	AXTELL - PAULINE 345KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0309	105.2393	BENTON - ROSE HILL 345KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03083	105.0996	HARPER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03137	105.0078	FARGO JCT - WOODWARD 69KV CKT 1
FDNS		3	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03624	105.0006	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03069	104.9628	MOORE - PAULINE 345KV CKT 1
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05023	104.9462	SPP-SWPS-01
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05091	104.9062	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03083	104.8119	SPP-MKEC-03B
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	104.7776	WRD0400
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03083	104.7607	CLEARWATER - MILAN TAP 138KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03083	104.7465	SPP-MKEC-03A
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03083	104.6971	SPP-MKEC-05
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03054	104.6597	HOYT - JEFFREY ENERGY CENTER 345KV CKT 1
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03706	104.4125	DEWEY - IODINE 138KV CKT 1
FDNS		3	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03067	104.1841	GEN520998 1-MORLND3
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0477	104.0335	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	103.9699	GEN525562 1-TOLK GEN #2 24 KV
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03208	103.9327	DEWEY - TALOGA 138KV CKT 1
FDNS	06ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04559	103.6571	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	103.6376	GEN562017 1-G11_022_3 0.6900
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03133	103.4526	BASE CASE
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	102.8572	GEN525561 1-TOLK GEN #1 24 KV
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03145	102.7939	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03053	102.786	GEN560121 1-G08-47 0.5750
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	102.5425	NC1_GEN-NEBRASKA CITY 1
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03531	101.8689	WOODWARD - WOODWARD 69KV CKT 1
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03007	101.8316	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03451	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03451	101.3225	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		1	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0312	101.3079	GEN520997 1-MORLND2
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03145	101.2211	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03669	101.0241	MOREWOOD SW - NINE MILE 138KV CKT 1
FDNS	01ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05184	100.993	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03669	100.6702	MOORELAND - NINE MILE 138KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.568	GEN560221 1-G07-62-1 0.6900
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.568	GEN560222 1-G07-62-2 0.6900
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.568	GEN560223 1-G07-62-3 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY	
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.568	GEN560224 1-G07-62-4 0.6900
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.5067	GEN524295 1-SPNSPUR_WND10.6900
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.4515	GEN523461 1-BLACKHAWK GEN #1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.4135	GEN523462 1-BLACKHAWK GEN #2
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.4021	GEN560522 1-G05-12-2 0.6900
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03061	100.3852	IODINE - MOORELAND 138KV CKT 1
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0306	100.3493	GEN514805 1-SOONER UNIT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.3269	GEN531208 1-FLTRDG-WG1 0.6000
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.2757	GEN515365 1-CENT 21 34.500
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.2604	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.2548	GEN562017 1-G11_022_3 0.6900
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03024	100.1638	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.1086	GEN560121 1-G08-47 0.5750
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100.067	GEN542957 1-IATAN UNIT #1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100	GEN531459 2-S2 GENERATOR
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100	GEN539762 1-SSWIND 1 34.500
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	100	GEN560267 1-G10-15-1 0.6900
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.917	EASTDC - WELSH 345KV CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.9	GEN539785 1-ENSNWV 1 0.5750
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.9	GEN560268 1-G10-15-2 0.6900
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.8	GEN515393 1-OGEWND2G
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.8	GEN527161 1-MUSTANG GEN #1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.8	GEN527162 1-MUSTANG GEN #2
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.8	GEN539767 1-GRAY COUNTY WIND FARM
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.8	GEN645001 1-FORT CALHOUN 1
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0306	99.7	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.7	GEN562023 1-G11_020_3 0.6900
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.7	GEN562026 1-G11_019_3 0.6900
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.6	GEN560696 1-G11-008-4 0.6900
FDNS		2	0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03012	99.5	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.5	GEN526334 1-JONES_4 116.500
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.5	GEN542962 2-IATAN UNIT #2
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.5	GEN645011 1-NEBRASKA CITY 1
FDNS	03ALL		0	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	99.5	GEN659111 2-LELAND OLDS UNIT2
FDNS		3	0	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03023	223.9645	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03054	188.9328	DBL-WICH-THI
FDNS		2	0	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03022	176.1806	DBL-WICH-THI
FDNS		1	0	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.0306	168.0853	DBL-WICH-THI
FDNS	04ALL		0	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03049	138.7306	DBL-WICH-THI
FDNS	06ALL		0	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03038	132.2025	DBL-WICH-THI
FDNS		4	0	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03056	130.4421	DBL-WICH-THI
FDNS	06G11_025		0	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03041	128.0746	DBL-WICH-THI
FDNS		6	0	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03041	127.685	DBL-WICH-THI
FDNS	09ALL		0	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03061	111.2997	DBL-WICH-THI
FDNS		9	0	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03065	110.1027	DBL-WICH-THI
FDNS		13	0	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03071	106.7686	DBL-WICH-THI
FDNS	13ALL		0	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03073	106.1697	DBL-WICH-THI
FDNS		3	0	14G	G11_025	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03158	100.7172	DBL-WICH-THI
FNSL-Blown up	02ALL		0	14G	G11_025	-	Non-converged Contingency	-	0.13918	-	DBL-BVR-WWRD
FNSL-Blown up	03ALL		0	14G	G11_025	-	Non-converged Contingency	-	0.1594	-	DBL-WICH-THI
FDNS	01ALL		0	14G	G11_025	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.18815	102.794	DBL-THIS-WVR
FDNS		3	2	14G	G11_025	TO->FROM	CIRCLE - MULLERGREN 230KV CKT 1	318.7	0.0337	109.6434	DBL-WICH-THI
FDNS		3	2	14G	G11_025	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	191	0.03083	113.6224	DBL-WICH-THI
FDNS		3	2	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03083	209.5236	DBL-WICH-THI
FDNS	09ALL		2	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03061	100.7582	DBL-WICH-THI
FDNS		9	2	14G	G11_025	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03065	99.6	DBL-WICH-THI
FDNS	03ALL		2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04257	172.8268	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04257	160.6288	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS		3	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04189	152.9735	DBL-WICH-THI
FDNS		3	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0428	142.7618	NORTHWEST - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03175	140.3486	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03329	137.81	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	03ALL		2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03329	136.0836	DEWEY - IODINE 138KV CKT 1
FDNS		3	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0428	130.3082	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03135	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03135	129.8347	THISTLE7 345.00 - WICHITA 345KV CKT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATEB (MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04737	126.9997	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03175	126.8514	WOODWARD - WOODWARD 69KV CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03892	124.8549	SPP-SWPS-03
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03877	124.7372	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03877	124.6975	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03877	123.9346	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03877	121.5078	SPP-SWPS-02A
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03377	121.0796	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04737	117.9566	SPP-AEPW-32
FDNS		3	2	14G	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03192	117.744	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03877	115.9103	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03877	115.8725	SPP-SWPS-02
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03877	115.867	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04666	115.5472	SPP-SWPS-01
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04737	115.2876	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS		3	2	14G	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	113.8039	IODINE - WOODWARD EHV 138KV CKT 1
FDNS		3	2	14G	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03347	112.073	DEWEY - IODINE 138KV CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03281	107.4899	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03282	107.4837	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS		3	2	14G	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04756	104.4333	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS		3	2	14G	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03153	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS		3	2	14G	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03153	104.217	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS		3	2	14G	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03192	104.1408	WOODWARD - WOODWARD 69KV CKT 1
FDNS		3	2	14G	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03911	102.9807	SPP-SWPS-03
FDNS		3	2	14G	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03896	102.9398	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS		3	2	14G	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03896	102.9342	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03055	102.4598	BEAVER CO 345.00 - BUCKNER7 345.00 345KV CKT 1
FDNS		3	2	14G	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03896	102.1802	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04485	101.9149	DBL-THIS-WWR
FDNS	03ALL	2	14G	G11_025	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03109	101.7384	MOREWOOD SW - RED HILLS WIND 138KV CKT 1
FDNS		3	2	14G	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03394	100.1259	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS		3	2	14G	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03896	99.9	SPP-SWPS-02A
FDNS		3	2	14G	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03083	219.9313	DBL-WICH-THI
FDNS	09ALL	2	14G	G11_025	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03061	111.2974	DBL-WICH-THI
FDNS		9	2	14G	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	110	0.03065	110.1004	DBL-WICH-THI
FDNS	03ALL	2	14G	G11_025	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03465	131.9195	G11-17T 345.00 - POST ROCK 345KV CKT 1
FDNS	03ALL	2	14G	G11_025	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03465	108.3648	G11-17T 345.00 - SPEARVILLE 345KV CKT 1
FDNS		3	2	14G	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398	0.03511	104.0607	G11-17T 345.00 - POST ROCK 345KV CKT 1
FNSL-Blown up	03ALL	2	14G	G11_025	-	Non-converged Contingency	-	0.16174	-	DBL-WICH-THI
FDNS		3	0	14G	FROM->TO	BUCKNER7 345.00 - HOLCOMB 345KV CKT 1	717.1	0.03506	99.6	DBL-IRON-CLR
FDNS	09ALL	0	14G	G11_027	FROM->TO	G10-51T 230.00 - HOSKINS 230KV CKT 1	225	1	142.8386	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1
FDNS	09ALL	0	14G	G11_027	FROM->TO	G10-51T 230.00 - TWIN CHURCH 230KV CKT 1	320	1	100.2958	G10-51T 230.00 - HOSKINS 230KV CKT 1
FNSL-Blown up		3	0	14G	-	Non-converged Contingency	-	0.07232	-	DBL-THIS-CLR
FNSL-Blown up	03ALL	0	14G	G11_027	-	Non-converged Contingency	-	0.07097	-	DBL-IRON-CLR
FNSL-Blown up	03ALL	0	14G	G11_027	-	Non-converged Contingency	-	0.07097	-	DBL-SPRVL-CL
FNSL-Blown up	03ALL	0	14G	G11_027	-	Non-converged Contingency	-	0.07097	-	DBL-THIS-CLR
FNSL-Blown up	03ALL	2	14G	G11_027	-	Non-converged Contingency	-	0.05217	-	DBL-THIS-CLR

I: Power Flow Analysis (Category “C” Contingencies)

Available on request