



Definitive Interconnection System Impact Study for Generation Interconnection Requests

(DISIS-2011-001-8)

December 2015

Generator 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12/16/2011	SPP	Account for Withdrawn Projects, Report Re-Posted (DISIS-2011-001-1)
05/04/2012	SPP	Account for Withdrawn Projects, Report Re-Posted (DISIS-2011-001-2)
02/05/2013	SPP	Account for Withdrawn Projects, Report Re-Posted (DISIS-2011-001-3)
12/19/2013	SPP	Account for Withdrawn Projects, Report Re-Posted (DISIS-2011-001-4)
05/19/2014	SPP	Account for Withdrawn Projects, Report Re-Posted (DISIS-2011-001-5)
07/25/2014	SPP	Account for Withdrawn Projects, Report Re-Posted (DISIS-2011-001-6)
06/18/2015	SPP	Account for Withdrawn Projects, Report Re-Posted (DISIS-2011-001-7)
12/18/2015	SPP	Account for revised upgrade for Group 1 and Group 2 Projects and account for Group 03 request withdrawal

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 2,558.0 MW of new generation which would be located within the transmission systems of American Electric Cooperative Corporation (AEPW), Kansas City Power & Light (KACP), Midwest Energy Inc. (MIDW), 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 a requested modification by OKGE to change the interconnection upgrade for Group 1 and Group 2 Requests.

This restudy looked at ERIS and NRIS powerflow analysis for Group 1, 2, and 3 projects only. Cost allocation has also been updated. For complete stability analysis, please refer to DISIS-2011-001.

Power flow analysis has indicated that for the power flow cases studied, 2,558.0 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.

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.

The total estimated minimum cost for interconnecting the DISIS-2011-001 interconnection customers is \$56,021,853. These costs are shown in Appendix E and F. Interconnection Service to DISIS-2011-001 interconnection customers is also contingent upon higher queued customers paying for certain required network upgrades. **The in service date for the DISIS customers will be deferred until the construction of these network upgrades can be completed.**

These costs do not include the Interconnection Customer Interconnection Facilities as defined by the SPP Open Access Transmission Tariff (OATT). This cost does not include additional network constraints in the SPP transmission system 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 2,558.0 MW of new generation which would be located within the transmission systems of American Electric Cooperative Corporation (AEPW), Kansas City Power & Light (KACP), Midwest Energy Inc. (MIDW), 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.

This restudy looked at ERIS and NRIS powerflow analysis for Group 1, 2, and 3 projects only. Cost allocation has also been updated. For complete stability analysis, please refer to DISIS-2011-001.

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 Re-Study is two Affected System Studies, located on the Southwestern Public Service Company distribution system and share a connection to the SPS transmission system. The Affected System Study Request has been given the designation: 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 2015 series Transmission Service Request (TSR) Models 2017 spring, 2016 winter peak, 2017 summer peak, 2020 summer and winter peak, and the 2025 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. For complete stability analysis, please refer to DISIS-2011-001.

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.

- All facilities part of the expansion plan required for interconnection are currently placed in service.

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 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 2017 spring model. To study peaking units' impacts, the 2016 winter, 2017 summer, 2020 summer and winter, and 2025 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 2017 spring model. Cost Allocated Network Upgrades of peaking units was determined using the 2020 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 PTDF for the project have been determined, the cost allocation for Generation Interconnection request 'X' for Upgrade Project 1 is found by the following set of steps and formulas:

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

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

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

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

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

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

- Repeat previous for each responsible GI request for each Project

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

Credits 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 2,558.0 MW of restudied 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 restudied cluster total \$56,021,853. 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 2017 spring peak, 2016 winter peak, 2017 summer peak, and the 2020 summer and winter peak, and 2025 summer peak models. The output of the Interconnection Customer's facility was offset in each model by a reduction in output of existing online SPP generation. This method allows the request to be studied as an Energy Resource (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.

Cluster Group 1 (Woodward Area)

In addition to the 2,731.3 MW of previously queued generation in the area, 698.8 MW of new interconnection service was studied. To alleviate the Mooreland – FPL – Woodward 138kV constraint, a phase shifting transformer was modeled at the Woodward EHV District substation in conjunction with modeling one Woodward EHV – Woodward District line open. A phase shift angle of 5 degrees was required to mitigate the constraints. The cost of the phase shifting transformer will be shared among GEN-2011-019, GEN-2011-020, and GEN-2011-022.

Cluster Group 2 (Hitchland Area)

In addition to the 2,142.7 MW of previously queued generation in the area, 520.0 MW of new interconnection service was studied. To alleviate the Mooreland – FPL – Woodward 138kV constraint, a phase shifting transformer was modeled. The cost of the phase shifting transformer will be shared among GEN-2011-019, GEN-2011-020, and GEN-2011-022.

Cluster Group 3 (Spearville Area)

In addition to the 1,983.2 MW of previously queued generation in the area, 800.10 MW of new interconnection service was studied. Power Flow Analysis resulted in no new constraints requiring transmission enforcements were found in this area.

Cluster Group 4 (NW Kansas Group)

In addition to the 1,073.8 MW of previously queued generation in the area, 201.0 MW of new interconnection service was studied. Power Flow Analysis was not performed again for this restudy. Please refer to previous Impact Study for results.

Cluster Group 5 (Amarillo Area)

In addition to the 642.00 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 1,662.1 MW of previously queued generation in the area, 90.0 MW of new interconnection service was studied. Power Flow Analysis was not performed again for this restudy. Please refer to previous Impact Study for results.

Cluster Group 7 (Southwestern Oklahoma)

In addition to the 1,418.5 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 1,753.6 MW of previously queued generation in the area, 4.5 MW of new interconnection service was studied. Power Flow Analysis was not performed again for this restudy. Please refer to previous Impact Study for results.

Cluster Group 9 (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. Power Flow Analysis was not performed again for this restudy. Please refer to previous Impact Study for results.

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, 50.0 MW of new interconnection service was studied. Power Flow Analysis was not performed again for this restudy. Please refer to previous Impact Study for results.

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 not performed for this study iteration.

Cluster Group 1 (Woodward Area)

The Group 1 stability analysis was not performed again for this restudy.

Cluster Group 2 (Hitchland Area)

The Group 2 stability analysis was not performed again for this restudy.

Cluster Group 3 (Spearville Area)

The Group 3 stability analysis was not performed again for this restudy.

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.

Conclusion

The minimum cost of interconnecting 2,558.0 MW of new interconnection requests included in this Definitive Interconnection System Impact Re-Study is estimated at \$56,021,853 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.

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 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	12/1/2010	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-2010-057	201.00	ER/NR	MIDW	Rice County 230kV	Rice County 230kV	8/1/2012	TBD
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	KCPL	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 (GEN-2011-014 Tap) 345kV	12/31/2013	12/31/2014
GEN-2011-016	200.10	ER	SUNCMKEC	Spearville 345kV	Ironwood 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	SPS	Hitchland 345kV	Hitchland 345kV	12/31/2012	12/31/2014
GEN-2011-025	80.00	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 Hoskins - Twin Church 230kV	12/31/2012	TBD
Total: 2,558.00							

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

B: Prior Queued Interconnection Requests

See next page.

B: Prior Queued Interconnection Requests

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
ASGI-2010-006	150.00	AECI	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	27.30	SPS	Lovington 115kV	On-Line
ASGI-2013-006	2.00	SPS	SP-Erskine 115kV	
GEN-2001-014	96.00	WFEC	Ft Supply 138kV	On-Line
GEN-2001-026	74.30	WFEC	Washita 138kV	On-Line
GEN-2001-033	180.00	SPS	San Juan Tap 230kV	On-Line at 120MW
GEN-2001-036	80.00	SPS	Norton 115kV	On-Line
GEN-2001-037	100.00	OKGE	FPL Moreland Tap 138kV	On-Line
GEN-2001-039A	105.00	SUNCMKEC	Shooting Star Tap 115kV	On-Line
GEN-2001-039M	100.00	SUNCMKEC	Central Plains Tap 115kV	On-Line
GEN-2002-004	200.00	WERE	Latham 345kV	On-Line at 150MW
GEN-2002-005	120.00	WFEC	Red Hills Tap 138kV	On-Line
GEN-2002-008	240.00	SPS	Hitchland 345kV	On-Line at 120MW
GEN-2002-009	80.00	SPS	Hansford 115kV	On-Line
GEN-2002-022	240.00	SPS	Bushland 230kV	On-Line
GEN-2002-023N	0.80	NPPD	Harmony 115kV	On-Line
GEN-2002-025A	150.00	SUNCMKEC	Spearville 230kV	On-Line
GEN-2003-004	100.00	WFEC	Washita 138kV	On-Line
GEN-2003-005	100.00	WFEC	Anadarko - Paradise (Blue Canyon) 138kV	On-Line
GEN-2003-006A	200.00	SUNCMKEC	Elm Creek 230kV	On-Line
GEN-2003-019	250.00	MIDW	Smoky Hills Tap 230kV	On-Line
GEN-2003-020	160.00	SPS	Martin 115kV	On-Line
GEN-2003-021N	75.00	NPPD	Ainsworth Wind Tap 115kV	On-Line
GEN-2003-022	120.00	AEPW	Washita 138kV	On-Line
GEN-2004-014	154.50	SUNCMKEC	Spearville 230kV	On-Line at 100MW
GEN-2004-020	27.00	AEPW	Washita 138kV	On-Line
GEN-2004-023	20.60	WFEC	Washita 138kV	On-Line
GEN-2004-023N	75.00	NPPD	Columbus Co 115kV	On-Line
GEN-2005-003	30.60	WFEC	Washita 138kV	On-Line
GEN-2005-008	120.00	OKGE	Woodward 138kV	On-Line
GEN-2005-012	250.00	SUNCMKEC	Ironwood 345kV	On-Line at 160MW
GEN-2005-013	201.00	WERE	Caney River 345kV	On-Line
GEN-2006-002	101.00	AEPW	Sweetwater 230kV	On-Line
GEN-2006-018	170.00	SPS	TUCO Interchange 230kV	On-Line
GEN-2006-020N	42.00	NPPD	Bloomfield 115kV	On-Line
GEN-2006-020S	18.90	SPS	DWS Frisco 115kV	On-Line
GEN-2006-021	101.00	SUNCMKEC	Flat Ridge Tap 138kV	On-Line
GEN-2006-024S	19.80	WFEC	Buffalo Bear Tap 69kV	On-Line
GEN-2006-026	502.00	SPS	Hobbs 230kV & Hobbs 115kV	On-Line
GEN-2006-031	75.00	MIDW	Knoll 115kV	On-Line
GEN-2006-035	225.00	AEPW	Sweetwater 230kV	On-Line at 132MW
GEN-2006-037N1	75.00	NPPD	Broken Bow 115kV	On-Line
GEN-2006-038N005	80.00	NPPD	Broken Bow 115kV	On-Line

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2006-038N019	80.00	NPPD	Petersburg North 115kV	On-Line
GEN-2006-043	99.00	AEPW	Sweetwater 230kV	On-Line
GEN-2006-044	370.00	SPS	Hitchland 345kV	On-Line at 120MW
GEN-2006-044N	40.50	NPPD	North Petersburg 115kV	On-Line
GEN-2006-046	131.00	OKGE	Dewey 138kV	On-Line
GEN-2007-011N08	81.00	NPPD	Bloomfield 115kV	On-Line
GEN-2007-021	201.00	OKGE	Tatonga 345kV	On-Line
GEN-2007-025	300.00	WERE	Viola 345kV	On-Line
GEN-2007-040	200.00	SUNCMKEC	Buckner 345kV	On-Line at 132MW
GEN-2007-043	200.00	OKGE	Minco 345kV	On-Line
GEN-2007-044	300.00	OKGE	Tatonga 345kV	On-Line at 199MW
GEN-2007-046	200.00	SPS	Hitchland 115kV	On Schedule for 2015
GEN-2007-050	170.00	OKGE	Woodward EHV 138kV	On-Line at 150MW
GEN-2007-052	150.00	WFEC	Anadarko 138kV	On-Line
GEN-2007-062	765.00	OKGE	Woodward EHV 345kV	On Schedule for 2016 and 2017
GEN-2008-003	101.00	OKGE	Woodward EHV 138kV	On-Line
GEN-2008-013	300.00	OKGE	Hunter 345kV	On-Line at 235MW
GEN-2008-018	250.00	SPS	Finney 345kV	On-Line
GEN-2008-021	42.00	WERE	Wolf Creek 345kV	On-Line
GEN-2008-022	300.00	SPS	Tap Tolk - Eddy County (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	Beaver County 345kV	On-Line
GEN-2008-051	322.00	SPS	Potter County 345kV	On-Line at 161MW
GEN-2008-079	99.20	SUNCMKEC	Crooked Creek 115kV	On-Line
GEN-2008-086N02	201.00	NPPD	Meadow Grove 230kV	On-Line
GEN-2008-092	201.00	MIDW	Post Rock 230kV	On-Line
GEN-2008-098	100.80	WERE	Waverly 345kV	On-Line
GEN-2008-1190	60.00	OPPD	S1399 161kV	On-Line
GEN-2008-123N	89.70	NPPD	Tap Pauline - Hildreth (Rosemont) 115kV	On Schedule for 2015
GEN-2008-124	200.10	SUNCMKEC	Ironwood 345kV	On Schedule for 2016
GEN-2008-129	80.00	GMO	Pleasant Hill 161kV	On-Line
GEN-2009-008	199.50	MIDW	South Hays 230kV	On Schedule for 2015
GEN-2009-020	48.30	MIDW	Tap Nekoma - Bazine (Walnut Creek) 69kV	On Schedule for 2015
GEN-2009-025	59.80	OKGE	Nardins 69kV	On-Line
GEN-2009-040	73.80	WERE	Marshall 115kV	On Schedule for 2016
GEN-2010-001	300.00	OKGE	Beaver County 345kV	On-Line at 204 MW, On Schedule for 2015 (96 MW)
GEN-2010-003	100.80	WERE	Waverly 345kV	On-Line
GEN-2010-005	299.20	WERE	Viola 345kV	On-Line at 170MW
GEN-2010-006	205.00	SPS	Jones 230kV	On-Line
GEN-2010-009	165.60	SUNCMKEC	Buckner 345kV	On-Line
GEN-2010-011	29.70	OKGE	Tatonga 345kV	On-Line
GEN-2010-014	358.80	SPS	Hitchland 345kV	On Suspension
GEN-2010-036	4.60	WERE	6th Street 115kV	On-Line
GEN-2010-040	300.00	OKGE	Cimarron 345kV	On-Line
GEN-2010-041	10.50	OPPD	S1399 161kV	On Schedule for 2015
GEN-2010-045	197.80	SUNCMKEC	Buckner 345kV	On Schedule for 2017
GEN-2010-046	56.00	SPS	TUCO Interchange 230kV	On Schedule for 2016

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2010-051	200.00	NPPD	Tap Twin Church - Hoskins 230kV	On Suspension
Gray County Wind (Montezuma)	110.00	SUNCMKEC	Gray County Tap 115kV	On-Line
Llano Estacado (White Deer)	80.00	SPS	Llano Wind 115kV	On-Line
NPPD Distributed (Broken Bow)	8.30	NPPD	Broken Bow 115kV	On-Line
NPPD Distributed (Buffalo County Solar)	10.00	NPPD	Kearney Northeast	On-Line
NPPD Distributed (Burt County Wind)	12.00	NPPD	Tekamah & Oakland 115kV	On-Line
NPPD Distributed (Burwell)	3.00	NPPD	Ord 115kV	On-Line
NPPD Distributed (Columbus Hydro)	45.00	NPPD	Columbus 115kV	On-Line
NPPD Distributed (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
SPS Distributed (Yuma)	2.57	SPS	SP-Yuma 69kV	On-Line
Total:	14,768.4			

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-2011-010	100.80	OKGE	Minco 345kV
GEN-2011-019	299.00	OKGE	Woodward 345kV
GEN-2011-020	299.00	OKGE	Woodward 345kV
CURRENT CLUSTER SUBTOTAL	698.80		
AREA TOTAL	3,430.10		

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	200.00	SPS	Hitchland 115kV
GEN-2008-047	300.00	OKGE	Beaver County 345kV
GEN-2010-001	300.00	OKGE	Beaver County 345kV
GEN-2010-014	358.80	SPS	Hitchland 345kV
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	2,142.70		
ASGI-2011-002	20.00	SPS	Herring 115kV
GEN-2011-014	201.00	OKGE	Tap Hitchland - Woodward Dbl Ckt (GEN-2011-014 Tap) 345kV
GEN-2011-022	299.00	SPS	Hitchland 345kV
CURRENT CLUSTER SUBTOTAL	520.00		
AREA TOTAL	2,662.70		

GROUP 3: SPEARVILLE AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-039A	105.00	SUNCMKEC	Shooting Star Tap 115kV
GEN-2002-025A	150.00	SUNCMKEC	Spearville 230kV
GEN-2004-014	154.50	SUNCMKEC	Spearville 230kV
GEN-2005-012	250.00	SUNCMKEC	Ironwood 345kV
GEN-2006-021	101.00	SUNCMKEC	Flat Ridge Tap 138kV
GEN-2007-040	200.00	SUNCMKEC	Buckner 345kV
GEN-2008-018	250.00	SPS	Finney 345kV
GEN-2008-079	99.20	SUNCMKEC	Crooked Creek 115kV
GEN-2008-124	200.10	SUNCMKEC	Ironwood 345kV
GEN-2010-009	165.60	SUNCMKEC	Buckner 345kV
GEN-2010-045	197.80	SUNCMKEC	Buckner 345kV
Gray County Wind (Montezuma)	110.00	SUNCMKEC	Gray County Tap 115kV
PRIOR QUEUED SUBTOTAL	1,983.20		
GEN-2011-008	600.00	SUNCMKEC	Clark County 345kV
GEN-2011-016	200.10	SUNCMKEC	Ironwood 345kV
CURRENT CLUSTER SUBTOTAL	800.10		
AREA TOTAL	2,783.30		

GROUP 4: NORTHWEST 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-2008-092	201.00	MIDW	Post Rock 230kV
GEN-2009-008	199.50	MIDW	South Hays 230kV
GEN-2009-020	48.30	MIDW	Tap Nekoma - Bazine (Walnut Creek) 69kV
PRIOR QUEUED SUBTOTAL	1,073.80		
GEN-2010-057	201.00	MIDW	Rice County 230kV
CURRENT CLUSTER SUBTOTAL	201.00		
AREA TOTAL	1,274.80		

GROUP 5: AMARILLO AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2002-022	240.00	SPS	Bushland 230kV
GEN-2008-051	322.00	SPS	Potter County 345kV
Llano Estacado (White Deer)	80.00	SPS	Llano Wind 115kV
PRIOR QUEUED SUBTOTAL	642.00		
AREA TOTAL	642.00		

GROUP 6: SOUTH TEXAS PANHANDLE/NEW MEXICO AREA

Request	Capacity	Area	Proposed Point of Interconnection
ASGI-2010-010	42.20	SPS	Lovington 115kV
ASGI-2010-020	30.00	SPS	Tap LE-Tatum - LE-Crossroads 69kV
ASGI-2010-021	15.00	SPS	Tap LE-Saunders Tap - LE-Anderson 69kV
ASGI-2011-001	27.30	SPS	Lovington 115kV
ASGI-2013-006	2.00	SPS	SP-Erskine 115kV
GEN-2001-033	180.00	SPS	San Juan Tap 230kV
GEN-2001-036	80.00	SPS	Norton 115kV
GEN-2006-018	170.00	SPS	TUCO Interchange 230kV
GEN-2006-026	502.00	SPS	Hobbs 230kV & Hobbs 115kV
GEN-2008-022	300.00	SPS	Tap Tolk - Eddy County (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
SPS Distributed (Yuma)	2.57	SPS	SP-Yuma 69kV
PRIOR QUEUED SUBTOTAL	1,662.07		
ASGI-2011-003	10.00	SPS	Hendricks 115kV
GEN-2011-025	80.00	SPS	Tap Floyd County - Crosby County 115kV
CURRENT CLUSTER SUBTOTAL	90.00		
AREA TOTAL	1,752.07		

GROUP 7: SOUTHWEST OKLAHOMA AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2001-026	74.30	WFEC	Washita 138kV
GEN-2002-005	120.00	WFEC	Red Hills Tap 138kV
GEN-2003-004	100.00	WFEC	Washita 138kV
GEN-2003-005	100.00	WFEC	Anadarko - Paradise (Blue Canyon) 138kV
GEN-2003-022	120.00	AEPW	Washita 138kV
GEN-2004-020	27.00	AEPW	Washita 138kV
GEN-2004-023	20.60	WFEC	Washita 138kV
GEN-2005-003	30.60	WFEC	Washita 138kV
GEN-2006-002	101.00	AEPW	Sweetwater 230kV
GEN-2006-035	225.00	AEPW	Sweetwater 230kV
GEN-2006-043	99.00	AEPW	Sweetwater 230kV
GEN-2007-052	150.00	WFEC	Anadarko 138kV
GEN-2008-023	150.00	AEPW	Hobart Junction 138kV
GEN-2008-037	101.00	WFEC	Tap Washita - Blue Canyon Wind 138kV
PRIOR QUEUED SUBTOTAL	1,418.50		
AREA TOTAL	1,418.50		

GROUP 8: NORTH OKLAHOMA/SOUTH CENTRAL KANSAS 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	Caney River 345kV
GEN-2007-025	300.00	WERE	Viola 345kV
GEN-2008-013	300.00	OKGE	Hunter 345kV
GEN-2008-021	42.00	WERE	Wolf Creek 345kV
GEN-2008-098	100.80	WERE	Waverly 345kV
GEN-2009-025	59.80	OKGE	Nardins 69kV
GEN-2010-003	100.80	WERE	Waverly 345kV
GEN-2010-005	299.20	WERE	Viola 345kV
PRIOR QUEUED SUBTOTAL	1,753.60		
GEN-2010-055	4.50	AEPW	Wekiwa 138kV
CURRENT CLUSTER SUBTOTAL	4.50		
AREA TOTAL	1,758.10		

GROUP 9: NEBRASKA AREA

Request	Capacity	Area	Proposed Point of Interconnection
GEN-2002-023N	0.80	NPPD	Harmony 115kV
GEN-2003-021N	75.00	NPPD	Ainsworth Wind Tap 115kV
GEN-2004-023N	75.00	NPPD	Columbus Co 115kV
GEN-2006-020N	42.00	NPPD	Bloomfield 115kV
GEN-2006-037N1	75.00	NPPD	Broken Bow 115kV
GEN-2006-038N005	80.00	NPPD	Broken Bow 115kV
GEN-2006-038N019	80.00	NPPD	Petersburg North 115kV
GEN-2006-044N	40.50	NPPD	North Petersburg 115kV
GEN-2007-011N08	81.00	NPPD	Bloomfield 115kV
GEN-2008-086N02	201.00	NPPD	Meadow Grove 230kV
GEN-2008-1190	60.00	OPPD	S1399 161kV
GEN-2008-123N	89.70	NPPD	Tap Pauline - Hildreth (Rosemont) 115kV
GEN-2009-040	73.80	WERE	Marshall 115kV
GEN-2010-041	10.50	OPPD	S1399 161kV
GEN-2010-051	200.00	NPPD	Tap Twin Church - Hoskins 230kV
NPPD Distributed (Broken Bow)	8.30	NPPD	Broken Bow 115kV
NPPD Distributed (Buffalo County Solar)	10.00	NPPD	Kearney Northeast
NPPD Distributed (Burt County Wind)	12.00	NPPD	Tekamah & Oakland 115kV
NPPD Distributed (Burwell)	3.00	NPPD	Ord 115kV
NPPD Distributed (Columbus Hydro)	45.00	NPPD	Columbus 115kV
NPPD Distributed (Ord)	11.90	NPPD	Ord 115kV
NPPD Distributed (Stuart)	2.10	NPPD	Ainsworth 115kV
PRIOR QUEUED SUBTOTAL	1,276.60		
GEN-2011-018	73.60	NPPD	Steele City 115kV
GEN-2011-027	120.00	NPPD	Tap Hoskins - Twin Church 230kV
CURRENT CLUSTER SUBTOTAL	193.60		
AREA TOTAL	1,470.20		

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

GROUP 12: NORTHWEST ARKANSAS AREA			
Request	Capacity	Area	Proposed Point of Interconnection
AREA TOTAL	0.00		

GROUP 13: NORTHWEST MISSOURI AREA			
Request	Capacity	Area	Proposed Point of Interconnection
GEN-2008-129	80.00	GMO	Pleasant Hill 161kV
GEN-2010-036	4.60	WERE	6th Street 115kV
PRIOR QUEUED SUBTOTAL	84.60		
GEN-2011-011	50.00	KCPL	Iatan 345kV
CURRENT CLUSTER SUBTOTAL	50.00		
AREA TOTAL	134.60		

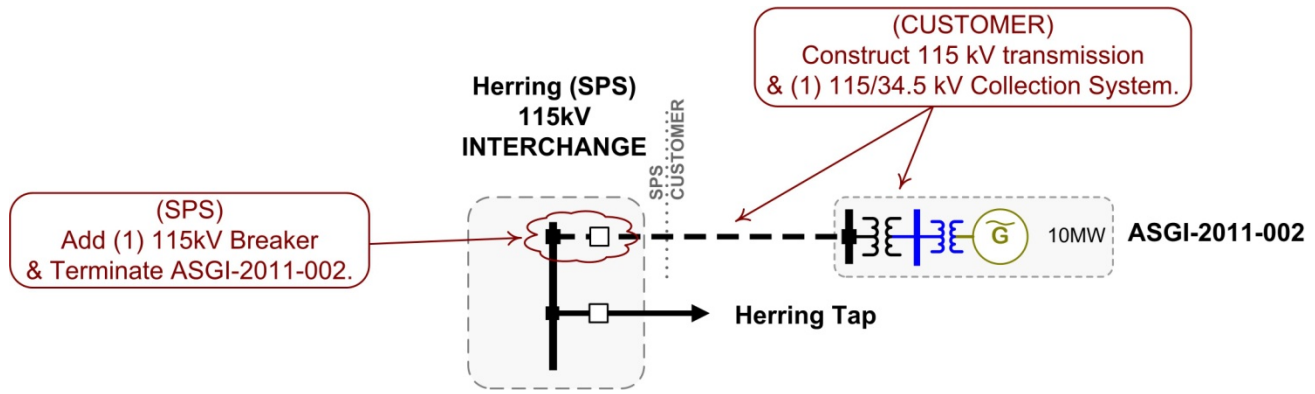
GROUP 14: SOUTH CENTRAL OKLAHOMA AREA			
Request	Capacity	Area	Proposed Point of Interconnection
AREA TOTAL	0.00		

CLUSTER TOTAL (CURRENT STUDY)	2,558.0	MW
PQ TOTAL (PRIOR QUEUED)	14,768.4	MW
CLUSTER TOTAL (INCLUDING PRIOR QUEUED)	17,326.4	MW

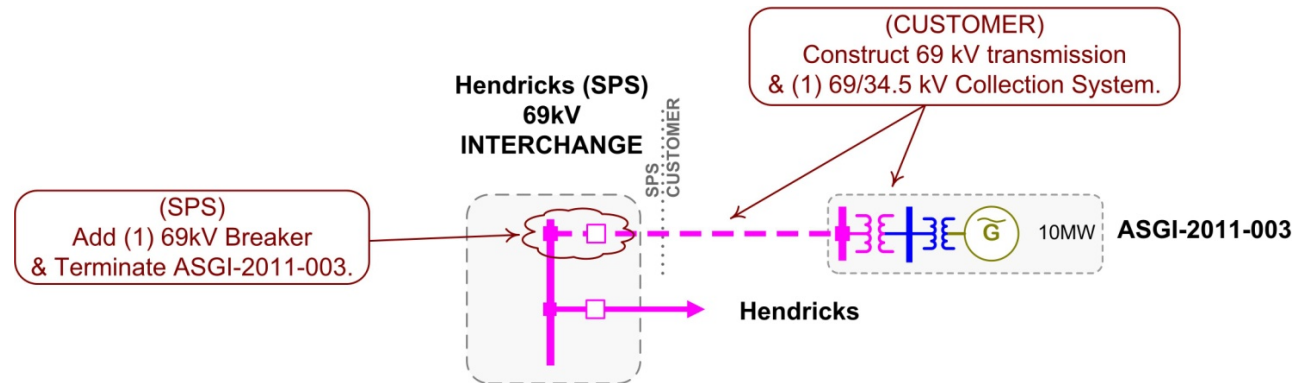
D: Proposed Point of Interconnection One line Diagrams

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-2010-057

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 an Interconnection Request choose to go into service prior to the operation date of any necessary Network Upgrades, the costs associated with those upgrades may be reallocated to the impacted Interconnection Request. The actual costs allocated to each Generation Interconnection Request Customer will be determined at the time of a restudy.

The required interconnection costs listed do not include all costs associated with the deliverability of the energy to final customers. These costs are determined by separate studies if the Customer submits a Transmission Service Request through SPP's Open Access Same Time Information System (OASIS) as required by Attachment Z1 of the SPP OATT. In addition, costs associated with a short circuit analysis will be allocated should the Interconnection Request Customer choose to execute a Facility Study Agreement.

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 Online Diagram.	Current Study	\$0	\$0
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Hitchland - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown).	In-Service		\$8,883,760
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$5,776,280
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$207,782,000
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$6,585,986
TUCO Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: TUCO 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	In-Service		\$14,900,907
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).	In-Service		\$249,247,072
	Current Study Total	\$0	

* 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
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ASGI-2011-003

ASGI-2011-003 Interconnection Costs See Online Diagram.	Current Study	\$0	\$0
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Hitchland - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown).	In-Service		\$8,883,760
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$5,776,280
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$207,782,000
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$6,585,986
TUCO Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: TUCO 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	In-Service		\$14,900,907
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).	In-Service		\$249,247,072
	Current Study Total	\$0	

GEN-2010-055

GEN-2010-055 Interconnection Costs See Online Diagram.	Current Study	\$309,300	\$309,300
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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
	Current Study Total	\$309,300	
GEN-2010-057			
GEN-2010-057 Interconnection Costs See Online Diagram.	Current Study	\$859,521	\$859,521
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: PostRock - Axtell 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$136,000,000
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
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
Rice County - Circle 230kV Conversion Convert from 115kV to 230kV operation	In-Service		\$9,889,234
Rice County - Lyons 115kV Rebuild circuit @ 1000 Amps	In-Service		\$6,646,800
Rice County 230/115kV transformer Install 230/115kV transformer at Rice County substation	In-Service		\$7,835,455
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Wheatland - Lyons 115kV Rerate circuit @ 1000 amps	In-Service		\$76,103
Iatan - Nashua 345KV CKT 1 Balanced Portfolio: Iatan - Nashua 345kV CKT 1 (Total Project E&C Cost Shown).	Previously Allocated		\$60,569,180
Nashua 345/161/13.8KV Autotransformer CKT 1 Balanced Portfolio: Nashua/161/13.8 Autotransformer 345kV CKT 1 (Total Project E&C Cost Shown).	Previously Allocated		\$4,230,000
	Current Study Total	\$859,521	
GEN-2011-008			
GEN-2011-008 Interconnection Costs See Online Diagram.	Current Study	\$3,236,246	\$3,236,246
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: PostRock - Axtell 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$136,000,000
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727

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

Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Hitchland - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown).	In-Service		\$8,883,760
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
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$5,776,280
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$207,782,000
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$6,585,986
TUCO Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: TUCO 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	In-Service		\$14,900,907
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).	In-Service		\$249,247,072
GEN-2011-017 Tap - Postrock 345kV CKT 1 Balanced Portfolio: Spearville - PostRock 345kV CKT 1 (Total Project E&C Cost Shown)	Not Active		\$84,006,000
Spearville - GEN-2011-017T 345kV CKT 1 Balanced Portfolio: Spearville - PostRock 345kV CKT 1 (Total Project E&C Cost Shown)	Not Active		\$84,006,000
Buckner - Spearville 345V CKT 1 Replace Terminal equipment	Previously Allocated		\$1,480,238
	Current Study Total		\$3,236,246

GEN-2011-010

* 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-2011-010 Interconnection Costs See Online Diagram.	Current Study	\$3,654,353	\$3,654,353
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$5,776,280
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$207,782,000
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$6,585,986
TUCO Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: TUCO 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	In-Service		\$14,900,907
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).	In-Service		\$249,247,072
	Current Study Total	\$3,654,353	
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GEN-2011-011			
GEN-2011-011 Interconnection Costs See Online Diagram.	Current Study	\$0	\$0
	Current Study Total	\$0	
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GEN-2011-014			
GEN-2011-014 Interconnection Costs See Online Diagram.	Current Study	\$16,844,894	\$16,844,894
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072

* 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
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown.)	In-Service		\$8,883,760
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$5,776,280
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$207,782,000
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$6,585,986
TUCO Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: TUCO 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	In-Service		\$14,900,907
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).	In-Service		\$249,247,072
	Current Study Total	\$16,844,894	

GEN-2011-016

GEN-2011-016 Interconnection Costs See Online Diagram.	Current Study	\$7,777,232	\$7,777,232
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: PostRock - Axtell 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$136,000,000
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292

* 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 - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown).	In-Service		\$8,883,760
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
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$5,776,280
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$207,782,000
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$6,585,986
TUCO Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: TUCO 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	In-Service		\$14,900,907
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).	In-Service		\$249,247,072
GEN-2011-017 Tap - Postrock 345kV CKT 1 Balanced Portfolio: Spearville - PostRock 345kV CKT 1 (Total Project E&C Cost Shown)	Not Active		\$84,006,000
Spearville - GEN-2011-017T 345kV CKT 1 Balanced Portfolio: Spearville - PostRock 345kV CKT 1 (Total Project E&C Cost Shown)	Not Active		\$84,006,000
Buckner - Spearville 345V CKT 1 Replace Terminal equipment	Previously Allocated		\$1,480,238
	Current Study Total		\$7,777,232

GEN-2011-017

Axtell - PostRock 345KV CKT 1 Balanced Portfolio: PostRock - Axtell 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$136,000,000
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727

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

Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Hitchland - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown).	In-Service		\$8,883,760
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
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$5,776,280
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$207,782,000
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$6,585,986
TUCO Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: TUCO 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	In-Service		\$14,900,907
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).	In-Service		\$249,247,072
GEN-2011-017 Tap - Postrock 345kV CKT 1 Balanced Portfolio: Spearville - PostRock 345kV CKT 1 (Total Project E&C Cost Shown)	Not Active		\$84,006,000
Spearville - GEN-2011-017T 345kV CKT 1 Balanced Portfolio: Spearville - PostRock 345kV CKT 1 (Total Project E&C Cost Shown)	Not Active		\$84,006,000
Buckner - Spearville 345V CKT 1 Replace Terminal equipment	Previously Allocated		\$1,480,238

* 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-2011-017 Interconnection Costs See Oonline Diagram.	Withdrawn		\$11,532,284
	Current Study Total	\$0	
GEN-2011-018			
GEN-2011-018 Interconnection Costs See Oonline Diagram.	Current Study	\$900,000	\$900,000
Twin Church - Dixon County 230kV Increase conductor clearances to accommodate 320MVA facility rating	Previously Allocated		\$100,000
	Current Study Total	\$900,000	
GEN-2011-019			
GEN-2011-019 Interconnection Costs See Oonline Diagram.	Current Study	\$3,654,353	\$3,654,353
Woodward EHV Phase Shifting Transformer NRIS Install one phase shifting transformer at Woodward	Current Study	\$3,132,537	\$7,100,000
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$5,776,280
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$207,782,000
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$6,585,986
TUCO Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: TUCO 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	In-Service		\$14,900,907
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).	In-Service		\$249,247,072
	Current Study Total	\$6,786,890	
GEN-2011-020			

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

Interconnection Request and Upgrades	Upgrade Type	Allocated Cost	Upgrade Cost
GEN-2011-020 Interconnection Costs See Online Diagram.	Current Study	\$3,654,353	\$3,654,353
Woodward EHV Phase Shifting Transformer NRIS Install one phase shifting transformer at Woodward	Current Study	\$3,132,537	\$7,100,000
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$5,776,280
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$207,782,000
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$6,585,986
TUCO Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: TUCO 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	In-Service		\$14,900,907
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).	In-Service		\$249,247,072
	Current Study Total	\$6,786,890	

GEN-2011-022

GEN-2011-022 Interconnection Costs See Online Diagram.	Current Study	\$3,281,972	\$3,281,972
Woodward EHV Phase Shifting Transformer NRIS Install one phase shifting transformer at Woodward	Current Study	\$834,925	\$7,100,000
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072

* 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
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Hitchland - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727
Hitchland 345/230kV Autotransformer CKT 2 Priority Project: Hitchland 345/230kV Autotransformer CKT 2 (Total Project E&C Cost Shown).	In-Service		\$8,883,760
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$5,776,280
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$207,782,000
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$6,585,986
TUCO Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: TUCO 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	In-Service		\$14,900,907
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).	In-Service		\$249,247,072
	Current Study Total		\$4,116,897

GEN-2011-025

GEN-2011-025 Interconnection Costs See Online Diagram.	Current Study	\$4,249,629	\$4,249,629
Beaver County - Woodward 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Border - Woodward 345KV CKT 1 Balanced Portfolio: Tuco - Woodward 345kV CKT 1 (Total Project E&C Cost Shown)	In-Service		\$249,247,072
Clark - Thistle 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292

* 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 - Beaver County 345kV Dbl CKT Priority Project: Hitchland - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$226,040,727
Spearville - Clark 345KV Dbl CKT Priority Project: Spearville - Clark - Thistle Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Flat Ridge 138kV CKT 1 Priority Project: Thistle - Flat Ridge 138kV CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$5,776,280
Thistle - Wichita 345KV Dbl CKT Priority Project: Thistle - Wichita Dbl 345kV CKT (Total Project E&C Cost Shown.)	In-Service		\$426,504,292
Thistle - Woodward 345KV Dbl CKT Priority Project: Thistle - Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	In-Service		\$207,782,000
Thistle 345/138KV Transformer CKT 1 Priority Project: Thistle 345/138kV Transformer CKT 1 (Total Project E&C Cost Shown.)	In-Service		\$6,585,986
TUCO Interchange 345/230/13.2KV Autotransformer CKT 2 Balanced Portfolio: TUCO 345/230 kV Transformer CKT 2 (Total Project E&C Cost Shown)	In-Service		\$14,900,907
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).	In-Service		\$249,247,072
	Current Study Total		\$4,249,629

GEN-2011-027

GEN-2011-027 Interconnection Costs See Online Diagram.	Current Study	\$0	\$0
Hoskins - Dixon County - Twin Church 230kV Rerate per NPPD Facility Study	Current Study	\$500,000	\$500,000
Fort Randall - Columbus 230kV CKT 1 Conductor clearance increase	In-Service		\$2,900,000
Twin Church - Dixon County 230kV Increase conductor clearances to accommodate 320MVA facility rating	Previously Allocated		\$100,000
	Current Study Total	\$500,000	

TOTAL CURRENT STUDY COSTS: \$56,021,853

* 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
See Online Diagram.		
	ASGI-2011-002	\$0
	Total Allocated Costs	\$0
ASGI-2011-003 Interconnection Costs		\$0
See Online Diagram.		
	ASGI-2011-003	\$0
	Total Allocated Costs	\$0
GEN-2010-055 Interconnection Costs		\$309,300
See Online Diagram.		
	GEN-2010-055	\$309,300
	Total Allocated Costs	\$309,300
GEN-2010-057 Interconnection Costs		\$859,521
See Online Diagram.		
	GEN-2010-057	\$859,521
	Total Allocated Costs	\$859,521
GEN-2011-008 Interconnection Costs		\$3,236,246
See Online Diagram.		
	GEN-2011-008	\$3,236,246
	Total Allocated Costs	\$3,236,246
GEN-2011-010 Interconnection Costs		\$3,654,353
See Online Diagram.		
	GEN-2011-010	\$3,654,353
	Total Allocated Costs	\$3,654,353
GEN-2011-011 Interconnection Costs		\$0
See Online Diagram.		
	GEN-2011-011	\$0
	Total Allocated Costs	\$0

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

GEN-2011-014 Interconnection Costs		\$16,844,894
See Online Diagram.		
	GEN-2011-014	\$16,844,894
	Total Allocated Costs	\$16,844,894
GEN-2011-016 Interconnection Costs		\$7,777,232
See Online Diagram.		
	GEN-2011-016	\$7,777,232
	Total Allocated Costs	\$7,777,232
GEN-2011-018 Interconnection Costs		\$900,000
See Online Diagram.		
	GEN-2011-018	\$900,000
	Total Allocated Costs	\$900,000
GEN-2011-019 Interconnection Costs		\$3,654,353
See Online Diagram.		
	GEN-2011-019	\$3,654,353
	Total Allocated Costs	\$3,654,353
GEN-2011-020 Interconnection Costs		\$3,654,353
See Online Diagram.		
	GEN-2011-020	\$3,654,353
	Total Allocated Costs	\$3,654,353
GEN-2011-022 Interconnection Costs		\$3,281,972
See Online Diagram.		
	GEN-2011-022	\$3,281,972
	Total Allocated Costs	\$3,281,972
GEN-2011-025 Interconnection Costs		\$4,249,629
See Online Diagram.		
	GEN-2011-025	\$4,249,629
	Total Allocated Costs	\$4,249,629
GEN-2011-027 Interconnection Costs		\$0
See Online Diagram.		
	GEN-2011-027	\$0
	Total Allocated Costs	\$0

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

Hoskins - Dixon County - Twin Church 230kV

\$500,000

Rerate per NPPD Facility Study

GEN-2011-027 \$500,000

Total Allocated Costs \$500,000

Woodward EHV Phase Shifting Transformer

\$7,100,000

NRIS Install one phase shifting transformer at Woodward

GEN-2011-019 \$3,132,537

GEN-2011-020 \$3,132,537

GEN-2011-022 \$834,925

Total Allocated Costs \$7,100,000

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

G: Power Flow Analysis (Constraints Requiring Transmission Reinforcements)

See next page.

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE B (MVA)	TDF	TC%LOADING (%) MVA)	CONTINGENCY
FDNS	01NR	0	17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.13184	143.6921	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01NR	0	17G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.13184	99.9	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01NR	0	17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08751	99.7	GEN520997 1-MORLND2
FDNS	01NR	0	17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08751	99.6	GEN520998 1-MORLND3
FDNS	01NR	0	17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.13184	143.6921	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01NR	0	17G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.13184	99.9	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01NR	0	17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08751	99.7	GEN520997 1-MORLND2
FDNS	01NR	0	17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08751	99.6	GEN520998 1-MORLND3

H: Power Flow Analysis (Constraints Not Requiring Transmission Reinforcements)

See next page

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	00G11_022	0	16WP	G11_022	FROM->TO	BEAVER JCT - FT SUPPLY 69KV CKT 1	48	0.04282	100.6247	DBL-G1114-WW
FDNS	2	0	17G	ASGI_11_002	FROM->TO	BEAVER JCT - FT SUPPLY 69KV CKT 1	48	0.03813	111.1609	DBL-HTCH-BVR
FDNS	02ASGI_11_002	0	17G	ASGI_11_002	FROM->TO	BEAVER JCT - FT SUPPLY 69KV CKT 1	48	0.03813	111.8043	DBL-HTCH-BVR
FDNS	2	0	17G	ASGI_11_002	FROM->TO	BEAVER JCT - FT SUPPLY 69KV CKT 1	48	0.03813	166.6922	DBL-BVR-G111
FDNS	2	0	17G	G11_022	FROM->TO	BEAVER JCT - FT SUPPLY 69KV CKT 1	48	0.04272	111.1609	DBL-HTCH-BVR
FDNS	02G11_022	0	17G	G11_022	FROM->TO	BEAVER JCT - FT SUPPLY 69KV CKT 1	48	0.04246	142.0719	DBL-HTCH-BVR
FDNS	2	0	17G	G11_022	FROM->TO	BEAVER JCT - FT SUPPLY 69KV CKT 1	48	0.04272	166.6922	DBL-BVR-G111
FDNSLock	02ASGI_11_002	0	17G	ASGI_11_002	FROM->TO	BEAVER JCT - FT SUPPLY 69KV CKT 1	48	0.03813	166.2597	DBL-BVR-G111
FDNS	2	0	17G	ASGI_11_002	FROM->TO	CLEARLAKE - SPEERMORE 69KV CKT 1	65	0.03813	134.8188	DBL-BVR-G111
FDNS	02G11_022	0	17G	G11_022	FROM->TO	CLEARLAKE - SPEERMORE 69KV CKT 1	65	0.04246	116.4937	DBL-HTCH-BVR
FDNS	2	0	17G	G11_022	FROM->TO	CLEARLAKE - SPEERMORE 69KV CKT 1	65	0.04272	134.8188	DBL-BVR-G111
FDNSLock	02ASGI_11_002	0	17G	ASGI_11_002	FROM->TO	CLEARLAKE - SPEERMORE 69KV CKT 1	65	0.03813	134.8749	DBL-BVR-G111
FDNS	2	0	17G	ASGI_11_002	FROM->TO	KINGSMILL INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1	88	0.04961	103.3	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	2	0	17G	ASGI_11_002	FROM->TO	KINGSMILL INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1	88	0.04961	103.3	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ASGI_11_002	0	17G	ASGI_11_002	FROM->TO	KINGSMILL INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1	88	0.04961	103.6261	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ASGI_11_002	0	17G	ASGI_11_002	FROM->TO	KINGSMILL INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1	88	0.04961	103.6261	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	KINGSMILL INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1	88	0.04919	131.7473	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	KINGSMILL INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1	88	0.04919	131.7473	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	1	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03198	117.4259	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	1	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03198	117.4259	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	3	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03202	117.5208	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	3	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03202	117.5208	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03209	120.4418	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03209	120.4418	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	1	0	17G	ASGI_11_002	FROM->TO	CANYON WEST SUB - DAWN SUB 115KV CKT 1	96	0.03198	120.4834	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	1	0	17G	ASGI_11_002	FROM->TO	CANYON WEST SUB - DAWN SUB 115KV CKT 1	96	0.03198	120.4834	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	3	0	17G	ASGI_11_002	FROM->TO	CANYON WEST SUB - DAWN SUB 115KV CKT 1	96	0.03202	120.5861	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	3	0	17G	ASGI_11_002	FROM->TO	CANYON WEST SUB - DAWN SUB 115KV CKT 1	96	0.03202	120.5861	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL	0	17G	ASGI_11_002	FROM->TO	CANYON WEST SUB - DAWN SUB 115KV CKT 1	96	0.03209	123.4949	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL	0	17G	ASGI_11_002	FROM->TO	CANYON WEST SUB - DAWN SUB 115KV CKT 1	96	0.03209	123.4949	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03204	130.1153	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03204	130.1153	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	0	17G	ASGI_11_002	FROM->TO	CANYON WEST SUB - DAWN SUB 115KV CKT 1	96	0.03204	133.1664	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	0	17G	ASGI_11_002	FROM->TO	CANYON WEST SUB - DAWN SUB 115KV CKT 1	96	0.03204	133.1664	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	2	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03244	135.6441	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	2	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03244	135.6441	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ASGI_11_002	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03243	135.7404	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ASGI_11_002	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03243	135.7404	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	2	0	17G	ASGI_11_002	FROM->TO	CANYON WEST SUB - DAWN SUB 115KV CKT 1	96	0.03244	138.6683	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	2	0	17G	ASGI_11_002	FROM->TO	CANYON WEST SUB - DAWN SUB 115KV CKT 1	96	0.03244	138.6683	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ASGI_11_002	0	17G	ASGI_11_002	FROM->TO	CANYON WEST SUB - DAWN SUB 115KV CKT 1	96	0.03243	138.7644	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ASGI_11_002	0	17G	ASGI_11_002	FROM->TO	CANYON WEST SUB - DAWN SUB 115KV CKT 1	96	0.03243	138.7644	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03251	159.5956	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1	96	0.03251	159.5956	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	CANYON WEST SUB - DAWN SUB 115KV CKT 1	96	0.03251	162.7049	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_019	FROM->TO	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1	134	0.03481	99	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	02ALL	0	17G	G11_020	FROM->TO	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1	134	0.03481	99	FPL SWITCH - MOORELAND 138KV CKT 1
FDNS	01ALL	0	17G	ASGI_11_002	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.03674	107.6991	DBL-THIS-WIC
FDNS	2	0	17G	ASGI_11_002	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.0362	110.7347	DBL-THIS-WIC
FDNS	02ASGI_11_002	0	17G	ASGI_11_002	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.0362	110.8129	DBL-THIS-WIC
FDNS	3	0	17G	ASGI_11_002	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.03652	113.0845	DBL-THIS-WIC
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.03588	129.634	DBL-THIS-WIC
FDNS	03ALL	0	17G	ASGI_11_002	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.0364	136.7382	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_008	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.06401	107.6991	DBL-THIS-WIC
FDNS	2	0	17G	G11_008	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.06347	110.7347	DBL-THIS-WIC
FDNS	3	0	17G	G11_008	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.06379	113.0845	DBL-THIS-WIC
FDNS	03G11_008	0	17G	G11_008	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.06381	118.3917	DBL-THIS-WIC
FDNS	02ALL	0	17G	G11_008	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.06315	129.634	DBL-THIS-WIC
FDNS	03ALL	0	17G	G11_008	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.06367	136.7382	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_014	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04489	107.6991	DBL-THIS-WIC
FDNS	2	0	17G	G11_014	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04435	110.7347	DBL-THIS-WIC
FDNS	02G11_014	0	17G	G11_014	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04435	111.9382	DBL-THIS-WIC
FDNS	3	0	17G	G11_014	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04468	113.0845	DBL-THIS-WIC
FDNS	02ALL	0	17G	G11_014	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04403	129.634	DBL-THIS-WIC
FDNS	03ALL	0	17G	G11_014	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04455	136.7382	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_016	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.05542	107.6991	DBL-THIS-WIC

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	2		0 17G	G11_016	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.05488	110.7347	DBL-THIS-WIC
FDNS	3		0 17G	G11_016	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.0552	113.0845	DBL-THIS-WIC
FDNS	03G11_016		0 17G	G11_016	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.05516	115.2933	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_016	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.05456	129.634	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_016	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.05508	136.7382	DBL-THIS-WIC
FDNS	01NR		0 17G	G11_019	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.05169	99.4	DBL-THIS-WIC
FDNS	01NR		2 17G	G11_019	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.053	101.5669	DBL-THIS-WIC
FDNS	01G11_019		0 17G	G11_019	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04788	103.7879	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_019	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04781	107.6991	DBL-THIS-WIC
FDNS	2		0 17G	G11_019	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04727	110.7347	DBL-THIS-WIC
FDNS	3		0 17G	G11_019	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04759	113.0845	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_019	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04695	129.634	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_019	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04747	136.7382	DBL-THIS-WIC
FDNS	01NR		0 17G	G11_020	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.05169	99.4	DBL-THIS-WIC
FDNS	01NR		2 17G	G11_020	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.053	101.5669	DBL-THIS-WIC
FDNS	01G11_020		0 17G	G11_020	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04788	103.7879	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_020	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04781	107.6991	DBL-THIS-WIC
FDNS	2		0 17G	G11_020	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04727	110.7347	DBL-THIS-WIC
FDNS	3		0 17G	G11_020	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04759	113.0845	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_020	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04695	129.634	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_020	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04747	136.7382	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_022	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04311	107.6991	DBL-THIS-WIC
FDNS	2		0 17G	G11_022	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04257	110.7347	DBL-THIS-WIC
FDNS	3		0 17G	G11_022	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04289	113.0845	DBL-THIS-WIC
FDNS	02G11_022		0 17G	G11_022	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04222	119.6991	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_022	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04225	129.634	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_022	FROM->TO	CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1	143	0.04276	136.7382	DBL-THIS-WIC
FDNS	1		0 17G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.03679	111.6164	DBL-THIS-WIC
FDNS	01ALL		0 17G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.03674	123.8061	DBL-THIS-WIC
FDNS	2		0 17G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.0362	126.9018	DBL-THIS-WIC
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.0362	126.9833	DBL-THIS-WIC
FDNS	3		0 17G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.03652	129.2937	DBL-THIS-WIC
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.03588	145.9313	DBL-THIS-WIC
FDNS	03ALL		0 17G	ASGI_11_002	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.0364	153.0912	DBL-THIS-WIC
FDNS	1		0 17G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.06406	111.6164	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.06401	123.8061	DBL-THIS-WIC
FDNS	2		0 17G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.06347	126.9018	DBL-THIS-WIC
FDNS	3		0 17G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.06379	129.2937	DBL-THIS-WIC
FDNS	03G11_008		0 17G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.06381	134.6574	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.06315	145.9313	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_008	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.06367	153.0912	DBL-THIS-WIC
FDNS	1		0 17G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04495	111.6164	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04489	123.8061	DBL-THIS-WIC
FDNS	2		0 17G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04435	126.9018	DBL-THIS-WIC
FDNS	02G11_014		0 17G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04435	128.1211	DBL-THIS-WIC
FDNS	3		0 17G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04468	129.2937	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04403	145.9313	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_014	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04455	153.0912	DBL-THIS-WIC
FDNS	1		0 17G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.05547	111.6164	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.05542	123.8061	DBL-THIS-WIC
FDNS	2		0 17G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.05488	126.9018	DBL-THIS-WIC
FDNS	3		0 17G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.0552	129.2937	DBL-THIS-WIC
FDNS	03G11_016		0 17G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.05516	131.4963	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.05456	145.9313	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_016	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.05508	153.0912	DBL-THIS-WIC
FDNS	1		0 17G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04786	111.6164	DBL-THIS-WIC
FDNS	01NR		0 17G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.05169	115.4316	DBL-THIS-WIC
FDNS	01NR		2 17G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.053	117.6074	DBL-THIS-WIC
FDNS	01G11_019		0 17G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04788	119.8538	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04781	123.8061	DBL-THIS-WIC
FDNS	2		0 17G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04727	126.9018	DBL-THIS-WIC
FDNS	3		0 17G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04759	129.2937	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04695	145.9313	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_019	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04747	153.0912	DBL-THIS-WIC
FDNS	1		0 17G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04786	111.6164	DBL-THIS-WIC
FDNS	01NR		0 17G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.05169	115.4316	DBL-THIS-WIC
FDNS	01NR		2 17G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.053	117.6074	DBL-THIS-WIC

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01G11_020	0	17G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04788	119.8538	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04781	123.8061	DBL-THIS-WIC
FDNS	2	0	17G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04727	126.9018	DBL-THIS-WIC
FDNS	3	0	17G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04759	129.2937	DBL-THIS-WIC
FDNS	02ALL	0	17G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04695	145.9313	DBL-THIS-WIC
FDNS	03ALL	0	17G	G11_020	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04747	153.0912	DBL-THIS-WIC
FDNS	1	0	17G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04316	111.6164	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04311	123.8061	DBL-THIS-WIC
FDNS	2	0	17G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04257	126.9018	DBL-THIS-WIC
FDNS	3	0	17G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04289	129.2937	DBL-THIS-WIC
FDNS	02G11_022	0	17G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04222	135.9478	DBL-THIS-WIC
FDNS	02ALL	0	17G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04225	145.9313	DBL-THIS-WIC
FDNS	03ALL	0	17G	G11_022	FROM->TO	HARPER - MILAN TAP 138KV CKT 1	143.4	0.04276	153.0912	DBL-THIS-WIC
FDNS	3	0	17G	G11_008	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	152.2	0.05159	106.6604	DBL-CLR-THI
FDNS	03ALL	0	17G	G11_016	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	152.2	0.05134	99.9	DBL-IRON-CLR
FDNS	3	0	17G	G11_016	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	152.2	0.05159	106.6604	DBL-CLR-THI
FDNS	03G11_016	0	17G	G11_016	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	152.2	0.05147	110.5082	DBL-CLR-THI
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	MANHATTAN SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1	160	0.04312	102.4095	Harrington Station Mid Bus - RANDALL COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	MANHATTAN SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1	160	0.04312	102.4095	Harrington Station Mid Bus - RANDALL COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	EAST PLANT INTERCHANGE - MANHATTAN SUB 115KV CKT 1	160	0.04312	107.5878	Harrington Station Mid Bus - RANDALL COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	EAST PLANT INTERCHANGE - MANHATTAN SUB 115KV CKT 1	160	0.04312	107.5878	Harrington Station Mid Bus - RANDALL COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04759	103.8325	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04759	111.0793	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	0	17G	ASGI_11_002	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04866	130.2664	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.0495	106.6086	DBL-THIS-WWR
FDNS	01ALL	0	17G	ASGI_11_002	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.05047	121.2021	DBL-THIS-WWR
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04105	101.2958	DBL-THIS-WIC
FDNS	01ALL	0	17G	ASGI_11_002	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04191	109.8566	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_008	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.03769	102.1912	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	0	17G	G11_008	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04983	103.8325	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	17G	G11_008	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04983	111.0793	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	0	17G	G11_008	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.0509	130.2664	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	0	17G	G11_008	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.03389	99.1	GEN520997 1-MORLND2
FDNS	02ALL	0	17G	G11_008	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.05919	101.2958	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_008	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.06005	109.8566	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_008	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.03277	100.8162	DBL-HTCH-BVR
FDNS	01ALL	0	17G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.06592	102.1912	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	0	17G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.08969	103.8325	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	17G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.08969	111.0793	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	0	17G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.09076	130.2664	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	0	17G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.0598	99.1	GEN520997 1-MORLND2
FDNS	02ALL	0	17G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.09065	106.6086	DBL-THIS-WWR
FDNS	01ALL	0	17G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.09162	121.2021	DBL-THIS-WWR
FDNS	02ALL	0	17G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.07776	101.2958	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.07861	109.8566	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_014	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.0959	100.8162	DBL-HTCH-BVR
FDNS	01ALL	0	17G	G11_016	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.03586	102.1912	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	0	17G	G11_016	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04764	103.8325	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	17G	G11_016	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04764	111.0793	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	0	17G	G11_016	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04871	130.2664	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	0	17G	G11_016	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.03231	99.1	GEN520997 1-MORLND2
FDNS	02ALL	0	17G	G11_016	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.05352	101.2958	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_016	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.05438	109.8566	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.08803	102.1912	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	0	17G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.1145	103.8325	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01G11_019	0	17G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.11812	105.4907	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL	0	17G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.1145	111.0793	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	0	17G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.11557	130.2664	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL	0	17G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.07885	99.1	GEN520997 1-MORLND2
FDNS	02ALL	0	17G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.12009	106.6086	DBL-THIS-WWR
FDNS	01ALL	0	17G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.12106	121.2021	DBL-THIS-WWR
FDNS	02ALL	0	17G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.09825	101.2958	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.09911	109.8566	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_019	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.0959	100.8162	DBL-HTCH-BVR
FDNS	01ALL	0	17G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.08803	102.1912	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL	0	17G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.1145	103.8325	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01G11_020	0	17G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.11812	105.4907	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.1145	111.0793	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.11557	130.2664	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.07885	99.1	GEN520997 1-MORLND2
FDNS	02ALL		0 17G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.12009	106.6086	DBL-THIS-WWR
FDNS	01ALL		0 17G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.12106	121.2021	DBL-THIS-WWR
FDNS	02ALL		0 17G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.09825	101.2958	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.09911	109.8566	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_020	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.0959	100.8162	DBL-HTCH-BVR
FDNS	01ALL		0 17G	G11_022	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.05238	102.1912	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_022	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.07451	103.8325	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.07451	111.0793	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.07558	130.2664	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.04813	99.1	GEN520997 1-MORLND2
FDNS	02ALL		0 17G	G11_022	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.07263	106.6086	DBL-THIS-WWR
FDNS	01ALL		0 17G	G11_022	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.0736	121.2021	DBL-THIS-WWR
FDNS	02ALL		0 17G	G11_022	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.06522	101.2958	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_022	FROM->TO	FPL SWITCH - MOORELAND 138KV CKT 1	287	0.06607	109.8566	DBL-THIS-WIC
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.12846	101.2614	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.12846	101.2614	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.12846	101.6253	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.12846	101.6253	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		0 17G	ASGI_11_002	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.15037	101.4794	DBL-BVR-G111
FDNS	2		0 17G	ASGI_11_002	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.15037	102.0515	DBL-BVR-G111
FDNS	02ALL		0 17G	G11_014	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.03992	101.2614	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.03992	101.2614	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.03992	101.6253	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.03992	101.6253	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.05538	101.2614	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.05538	101.2614	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.05538	101.6253	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.05538	101.6253	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		0 17G	G11_022	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.10365	101.4794	DBL-BVR-G111
FDNS	2		0 17G	G11_022	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.10365	102.0515	DBL-BVR-G111
FDNSLock	02ASGI_11_002		0 17G	ASGI_11_002	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.15038	100.6345	DBL-BVR-G111
FDNSLock	02ASGI_11_002		0 17G	ASGI_11_002	FROM->TO	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	316	0.15038	101.6422	DBL-BVR-G111
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.10051	104.1514	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.10051	104.1772	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09623	108.3982	PALO DURO SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.10051	104.1774	P12:230:AEPW-SPS:SWEETW6:WHEELER 6
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09074	100	P12:115:SPS:W40.1.WCANYON.DFSMTH
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09074	101.7142	P12:115:SPS:V05.1.OSAGE.WCANYON
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09623	105.9128	P12:115:SPS:T67.1.HAPPY.KRESS
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09623	108.3124	P12:115:SPS:T66.1.RNDALL.HAPPY
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08947	99.6	P12:115:SPS:T04.1.DFSMTH.CASTRO
FDNS	2		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.11124	110.9039	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.11123	111.0135	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.11119	129.9274	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09623	105.6157	KRESS INTERCHANGE - TULIA TAP 115KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.0927	99	Harrington Station East Bus - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.0927	99	Harrington Station East Bus - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09623	106.0105	HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09623	108.0869	HAPPY INTERCHANGE - PALO DURO SUB 115KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09386	100.8529	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09386	100.8529	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09301	101.5409	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09301	101.5409	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	99.2	GEN528361 1-MADDOX GEN #1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	104.2099	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	102.099	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	102.099	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	102.6547	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	101.4268	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	102.5618	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	101.7438	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	101.7436	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	102.4932	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	105.8733	GEN526331 1-JONES GEN #1 22 KV

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE@ MVA	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	102.3918	GEN525844 1-ELK_1 118.000
FDNS	2		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08775	101.0936	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08775	101.192	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1	350.57	0.06313	108.0218	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	118.6829	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09229	102.8593	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09229	102.8593	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.10051	107.3288	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.10051	107.3288	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.10051	107.3501	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09847	109.5756	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09847	109.5756	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09074	99.4	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08947	99.65535	DEAF SMITH COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1
FDNS	2		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.11627	104.3497	DBL-BVR-G111
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09074	99.7	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08947	99.33046	CASTRO COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09074	99.9	CANYON WEST SUB - DAWN SUB 115KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09074	101.4898	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09074	100.6748	CANYON E_TP3115.00 - CANYON WEST SUB 115KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09302	102.6546	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.09302	102.6546	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.10304	106.0678	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.10304	106.0678	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.10303	106.1701	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.10303	106.1701	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.10298	125.3902	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.10298	125.3902	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08938	99.7	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08938	99.7	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.07728	102.1181	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.07728	102.1494	BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.07728	102.1494	BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.08763	106.5813	BASE CASE
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.02951	104.1514	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.02951	104.1772	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.02951	104.1774	P12:230:AEPW-SPS:SWEETW6:WHEELER 6
FDNS	2		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03681	110.9039	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02G11_014		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03682	111.3371	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03676	129.9274	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03437	102.8593	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03437	102.8593	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.02951	107.3288	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.02951	107.3288	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.02951	107.3501	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03059	109.5756	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03059	109.5756	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	2		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03307	106.0678	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03307	106.0678	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02G11_014		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03307	106.4433	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02G11_014		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03307	106.4433	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03301	125.3902	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03301	125.3902	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03252	102.1181	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03252	102.1494	BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03252	102.1494	BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04122	104.1514	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04122	104.1772	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02G11_022		0 17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03933	101.1838	PALO DURO SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1
FDNS	02ALL		0 17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03943	108.3982	PALO DURO SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1
FDNS	02ALL		0 17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04122	104.1774	P12:230:AEPW-SPS:SWEETW6:WHEELER 6
FDNS	02ALL		0 17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03708	100	P12:115:SPS:W40.1.WCANYON.DFSMTH
FDNS	02ALL		0 17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03708	101.7142	P12:115:SPS:V05.1.OSAGE.WCANYON
FDNS	02ALL		0 17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03943	105.9128	P12:115:SPS:T67.1.HAPPY.KRESS
FDNS	02G11_022		0 17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03933	101.1372	P12:115:SPS:T66.1.RNDALL.HAPPY
FDNS	02ALL		0 17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03943	108.3124	P12:115:SPS:T66.1.RNDALL.HAPPY
FDNS	02ALL		0 17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03687	99.6	P12:115:SPS:T04.1.DFSMTH.CASTRO

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	2	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.05058	110.9039	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02G11_022	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.05036	121.6717	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.05052	129.9274	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03943	105.6157	KRESS INTERCHANGE - TULIA TAP 115KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03325	99	Harrington Station East Bus - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03325	99	Harrington Station East Bus - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03943	106.0105	HAPPY INTERCHANGE - TULIA TAP 115KV CKT 1
FDNS	02G11_022	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03933	100.8879	HAPPY INTERCHANGE - PALO DURO SUB 115KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03943	108.0869	HAPPY INTERCHANGE - PALO DURO SUB 115KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03857	100.8529	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03857	100.8529	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.0386	101.5409	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.0386	101.5409	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	99.2	GEN528361 1-MADDOX GEN #1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	104.2099	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	102.099	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	102.099	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	102.6547	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	101.4268	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	102.5618	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	101.7438	GEN527162 1-MUSTANG GEN #2
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	101.7436	GEN527161 1-MUSTANG GEN #1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	102.4932	GEN526332 1-JONES GEN #2 21 KV
FDNS	02G11_022	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03584	99.5	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	105.8733	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	102.3918	GEN525844 1-ELK 1 118.000
FDNS	02G11_022	0	17G	G11_022	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1	350.57	0.03564	100.1476	GEN525561 1-TOLK GEN #1 24 KV
FDNS	2	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03606	101.0936	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL	0	17G	G11_022	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1	350.57	0.03586	108.0218	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02G11_022	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03584	110.919	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	118.6829	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04281	102.8593	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04281	102.8593	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04117	99.1	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02G11_022	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04117	99.1	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04122	107.3288	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04122	107.3288	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02G11_022	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04117	99.1	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04122	107.3501	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02G11_022	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04196	101.7719	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	02G11_022	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04196	101.7719	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04209	109.5756	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04209	109.5756	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03708	99.4	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03687	99.65535	DEAF SMITH COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1
FDNS	02G11_022	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.07759	104.7522	DBL-HTCH-BVR
FDNS	2	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.07801	104.3497	DBL-BVR-G11
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03708	99.7	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03687	99.33046	CASTRO COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03708	99.9	CANYON WEST SUB - DAWN SUB 115KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03708	101.4898	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03708	100.6748	CANYON E_TP3115.00 - CANYON WEST SUB 115KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04024	102.6546	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04024	102.6546	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	2	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04532	106.0678	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	2	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04532	106.0678	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02G11_022	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04511	116.7063	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02G11_022	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04511	116.7063	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04526	125.3902	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04526	125.3902	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03832	99.7	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03832	99.7	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03863	102.1181	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03863	102.1494	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03863	102.1494	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03584	99.2	BASE CASE
FDNS	02ALL	0	17G	G11_022	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03593	106.5813	BASE CASE

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNSLock	02ASGI_11_002	0	17G	ASGI_11_002	FROM->TO	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.11627	106.5728	DBL-BVR-G111
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.0796	99.2	P12:115:SPS:V05.1.OSAGE.WCANYON
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.09023	110.4147	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.07029	99.3	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	2	0	17G	ASGI_11_002	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.06999	102.1602	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ASGI_11_002	0	17G	ASGI_11_002	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.06998	102.2129	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.07029	117.3155	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.0796	99.9	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.08907	105.3734	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.08907	105.3734	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_014	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.03553	99.2	P12:115:SPS:V05.1.OSAGE.WCANYON
FDNS	02ALL	0	17G	G11_014	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.04215	110.4147	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_014	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.0329	99.3	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	2	0	17G	G11_014	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.0326	102.1602	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02G11_014	0	17G	G11_014	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.0326	102.4707	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL	0	17G	G11_014	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.0329	117.3155	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL	0	17G	G11_014	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.03553	99.9	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1
FDNS	02ALL	0	17G	G11_014	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.03843	105.3734	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_014	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.03843	105.3734	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.04615	99.2	P12:115:SPS:V05.1.OSAGE.WCANYON
FDNS	02G11_022	0	17G	G11_022	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.05476	103.0111	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.05507	110.4147	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.04272	99.3	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	2	0	17G	G11_022	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.04242	102.1602	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02G11_022	0	17G	G11_022	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.04246	110.1899	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL	0	17G	G11_022	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.04272	117.3155	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL	0	17G	G11_022	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.04615	99.9	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.05042	105.3734	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	FROM->TO	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1	502	0.05042	105.3734	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	0	17G	G11_010	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.06202	104.3453	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	01ALL	0	17G	G11_010	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.06202	104.3453	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	01ALL	0	17G	G11_010	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.06202	106.2356	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	01ALL	0	17G	G11_010	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.06202	106.2356	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	01ALL	0	17G	G11_018	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.03077	104.3453	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	01ALL	0	17G	G11_018	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.03077	106.2356	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	01ALL	0	17G	G11_018	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.03077	106.2356	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1	611.9	0.14861	103.1137	DBL-THIS-WWR
FDNS	2	0	17G	ASGI_11_002	FROM->TO	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1	611.9	0.2228	115.2685	DBL-BVR-G111
FDNS	02ALL	0	17G	G11_014	FROM->TO	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1	611.9	0.15679	103.1137	DBL-THIS-WWR
FDNS	02ALL	0	17G	G11_019	FROM->TO	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1	611.9	0.10725	103.1137	DBL-THIS-WWR
FDNS	02ALL	0	17G	G11_020	FROM->TO	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1	611.9	0.10725	103.1137	DBL-THIS-WWR
FDNS	02ALL	0	17G	G11_022	FROM->TO	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1	611.9	0.18712	103.1137	DBL-THIS-WWR
FDNS	02G11_022	0	17G	G11_022	FROM->TO	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1	611.9	0.31508	101.5478	DBL-HTCH-BVR
FDNS	2	0	17G	G11_022	FROM->TO	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1	611.9	0.31667	115.2685	DBL-BVR-G111
FDNSLock	02ASGI_11_002	0	17G	ASGI_11_002	FROM->TO	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1	611.9	0.22281	119.4112	DBL-BVR-G111
FDNS	02ALL	0	17G	ASGI_11_002	FROM->TO	SPSNORTH_STH	1160	0.25347	105.127	BASE CASE
FDNS	02ALL	0	17G	G11_008	FROM->TO	SPSNORTH_STH	1160	0.05242	105.127	BASE CASE
FDNS	02ALL	0	17G	G11_014	FROM->TO	SPSNORTH_STH	1160	0.09868	105.127	BASE CASE
FDNS	02ALL	0	17G	G11_016	FROM->TO	SPSNORTH_STH	1160	0.05593	105.127	BASE CASE
FDNS	02ALL	0	17G	G11_018	FROM->TO	SPSNORTH_STH	1160	0.03905	105.127	BASE CASE
FDNS	02ALL	0	17G	G11_019	FROM->TO	SPSNORTH_STH	1160	0.04376	105.127	BASE CASE
FDNS	02ALL	0	17G	G11_020	FROM->TO	SPSNORTH_STH	1160	0.04376	105.127	BASE CASE
FDNS	02ALL	0	17G	G11_022	FROM->TO	SPSNORTH_STH	1160	0.1323	105.127	BASE CASE
FDNS	00G11_022	0	20WP	G11_022	FROM->TO	BEAVER JCT - FT SUPPLY 69KV CKT 1	48	0.0399	106.5705	DBL-G1114-WW
FDNS	00G11_022	0	20WP	G11_022	FROM->TO	BEAVER JCT - FT SUPPLY 69KV CKT 1	48	0.0399	103.9712	DBL-BVR-G111
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1	159.95	0.03668	104.3693	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1	159.95	0.03668	104.3693	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1	159.95	0.03668	109.0116	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1	159.95	0.03668	109.0116	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1	159.95	0.03668	101.8944	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1	159.95	0.03668	101.8944	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1	159.95	0.03668	106.4996	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1	159.95	0.03668	106.4996	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04601	101.8509	HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04601	101.8509	HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04601	102.826	HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1	288	0.04601	102.826	HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2	288	0.04601	101.8509	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2	288	0.04601	101.8509	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2	288	0.04601	102.826	HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1
FDNS	0	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.03302	115.3073	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.03302	115.3073	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	00G11_010	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.03292	117.2674	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	00G11_010	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.03292	117.2674	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.03302	117.4127	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	0	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.03302	117.4127	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	00G11_010	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.03292	119.5564	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	00G11_010	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1	560	0.03292	119.5564	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	560	0.14173	99.4	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	560	0.14173	99.4	HITCHLAND INTERCHANGE - MOORE COUNTY INTERCHANGE 230KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	560	0.12112	99.7	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	560	0.12112	99.7	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1	560	0.12112	99.7	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	00G11_010	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2	644	0.03206	99.3	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_010	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2	644	0.03206	99.3	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	0	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2	644	0.03216	99.6	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	0	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2	644	0.03216	99.6	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_010	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2	644	0.03206	101.4296	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_010	0	25SP	G11_010	FROM->TO	TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2	644	0.03206	101.4296	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1	644	0.1082	100.1513	Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1	644	0.1082	100.1513	Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2	644	0.11059	100.5837	Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2	644	0.11059	100.5837	Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2	644	0.11059	102.4785	Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_022	0	25SP	G11_022	FROM->TO	Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2	644	0.11059	102.4785	Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	00G11_019	0	16WP	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0475	100.7571	DBL-THIS-WIC
FDNS	00G11_020	0	16WP	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0475	100.7571	DBL-THIS-WIC
FDNS	00G11_019	0	16WP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	185	0.11796	100.6441	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_020	0	16WP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	185	0.11796	100.6441	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	2	0	17G	ASGI_11_002	TO->FROM	BEAVER JCT - SPEERMORE 69KV CKT 1	65	0.03813	127.1061	DBL-BVR-G111
FDNS	2	0	17G	ASGI_11_002	TO->FROM	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1	65	0.03813	137.5796	DBL-BVR-G111
FDNS	02G11_022	0	17G	G11_022	TO->FROM	BEAVER JCT - SPEERMORE 69KV CKT 1	65	0.04246	108.9094	DBL-HTCH-BVR
FDNS	02G11_022	0	17G	G11_022	TO->FROM	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1	65	0.04246	119.1944	DBL-HTCH-BVR
FDNS	2	0	17G	G11_022	TO->FROM	BEAVER JCT - SPEERMORE 69KV CKT 1	65	0.04272	127.1061	DBL-BVR-G111
FDNS	2	0	17G	G11_022	TO->FROM	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1	65	0.04272	137.5796	DBL-BVR-G111
FDNSLock	02ASGI_11_002	0	17G	ASGI_11_002	TO->FROM	BEAVER JCT - SPEERMORE 69KV CKT 1	65	0.03813	126.8871	DBL-BVR-G111
FDNSLock	02ASGI_11_002	0	17G	ASGI_11_002	TO->FROM	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1	65	0.03813	137.7573	DBL-BVR-G111
FDNS	02ALL	0	17G	ASGI_11_002	TO->FROM	BOWERS INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1	88	0.04919	119.5562	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	TO->FROM	BOWERS INTERCHANGE - MCCULLOUGH SUB 69KV CKT 1	88	0.04919	119.5562	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	1	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03198	113.5195	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	1	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03198	113.5195	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	3	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03202	113.5996	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	3	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03202	113.5996	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03209	116.557	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03209	116.557	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03204	126.2617	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03204	126.2617	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	2	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03244	131.8681	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	2	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03244	131.8681	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ASGI_11_002	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03243	131.9655	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ASGI_11_002	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03243	131.9655	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	1	0	17G	ASGI_11_002	TO->FROM	CANYON E TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03198	148.5438	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	1	0	17G	ASGI_11_002	TO->FROM	CANYON E TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03198	148.5438	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	3	0	17G	ASGI_11_002	TO->FROM	CANYON E TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03202	148.6895	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	3	0	17G	ASGI_11_002	TO->FROM	CANYON E TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03202	148.6895	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL	0	17G	ASGI_11_002	TO->FROM	CANYON E TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03209	151.566	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL	0	17G	ASGI_11_002	TO->FROM	CANYON E TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03209	151.566	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03251	155.766	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL	0	17G	ASGI_11_002	TO->FROM	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1	96	0.03251	155.766	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	0	17G	ASGI_11_002	TO->FROM	CANYON E TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03204	161.4939	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	01ALL	0	17G	ASGI_11_002	TO->FROM	CANYON E TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03204	161.4939	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	2	0	17G	ASGI_11_002	TO->FROM	CANYON E TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03244	166.9386	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	2		0 17G	ASGI_11_002	TO->FROM	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03244	166.9386	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03243	167.0386	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03243	167.0386	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03251	192.2518	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03251	192.2518	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	03ALL		0 17G	G11_016	TO->FROM	N HAYS3 115.00 - VINETAP3 115.00 115KV CKT 1	99	0.03389	103.394	KNOLL 230 - POSTROCK6 230.00 230KV CKT 1
FDNS	1		0 17G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03679	135.1158	DBL-THIS-WIC
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03674	151.0742	DBL-THIS-WIC
FDNS	2		0 17G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0362	155.1195	DBL-THIS-WIC
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0362	155.2244	DBL-THIS-WIC
FDNS	3		0 17G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03652	158.2992	DBL-THIS-WIC
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03588	180.1718	DBL-THIS-WIC
FDNS	03ALL		0 17G	ASGI_11_002	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0364	189.4933	DBL-THIS-WIC
FDNS	03G11_008		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03423	101.8216	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03G11_008		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03423	101.8216	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03391	105.4896	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03391	105.4896	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03416	115.1707	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03416	115.1707	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03G11_008		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03423	101.8216	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03G11_008		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03423	101.8216	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03391	105.4896	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03391	105.4896	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03416	115.1707	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03416	115.1707	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03298	100.0639	DBL-THIS-WWR
FDNS	1		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06406	135.1158	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06401	151.0742	DBL-THIS-WIC
FDNS	2		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06347	155.1195	DBL-THIS-WIC
FDNS	3		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06379	158.2992	DBL-THIS-WIC
FDNS	03G11_008		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06381	165.3081	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06315	180.1718	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_008	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.06367	189.4933	DBL-THIS-WIC
FDNS	1		0 17G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04495	135.1158	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04489	151.0742	DBL-THIS-WIC
FDNS	2		0 17G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04435	155.1195	DBL-THIS-WIC
FDNS	02G11_014		0 17G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04435	156.7137	DBL-THIS-WIC
FDNS	3		0 17G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04468	158.2992	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04403	180.1718	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_014	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04455	189.4933	DBL-THIS-WIC
FDNS	03G11_016		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03024	99.8	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03G11_016		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03024	99.8	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.02995	105.4896	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.02995	105.4896	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03019	115.1707	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03ALL		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03019	115.1707	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	03G11_016		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03024	99.8	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03G11_016		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03024	99.8	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.02995	105.4896	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.02995	105.4896	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03019	115.1707	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.03019	115.1707	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	1		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05547	135.1158	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05542	151.0742	DBL-THIS-WIC
FDNS	2		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05488	155.1195	DBL-THIS-WIC
FDNS	3		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.0552	158.2992	DBL-THIS-WIC
FDNS	03G11_016		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05516	161.2023	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05456	180.1718	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_016	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05508	189.4933	DBL-THIS-WIC
FDNS	1		0 17G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04786	135.1158	DBL-THIS-WIC
FDNS	01NR		0 17G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05169	140.1008	DBL-THIS-WIC
FDNS	01NR		2 17G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.053	142.9465	DBL-THIS-WIC
FDNS	01G11_019		0 17G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04788	145.9321	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04781	151.0742	DBL-THIS-WIC
FDNS	2		0 17G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04727	155.1195	DBL-THIS-WIC
FDNS	3		0 17G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04759	158.2992	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04695	180.1718	DBL-THIS-WIC

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE@ MVA	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	03ALL		0 17G	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04747	189.4933	DBL-THIS-WIC
FDNS	1		0 17G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04786	135.1158	DBL-THIS-WIC
FDNS	01NR		0 17G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05169	140.1008	DBL-THIS-WIC
FDNS	01NR		2 17G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.053	142.9465	DBL-THIS-WIC
FDNS	01G11_020		0 17G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04788	145.9321	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04781	151.0742	DBL-THIS-WIC
FDNS	2		0 17G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04727	155.1195	DBL-THIS-WIC
FDNS	3		0 17G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04759	158.2992	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04695	180.1718	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04747	189.4933	DBL-THIS-WIC
FDNS	1		0 17G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04316	135.1158	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04311	151.0742	DBL-THIS-WIC
FDNS	2		0 17G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04257	155.1195	DBL-THIS-WIC
FDNS	3		0 17G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04289	158.2992	DBL-THIS-WIC
FDNS	02G11_022		0 17G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04222	167.0136	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04225	180.1718	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04276	189.4933	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_014	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03096	100.3996	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03487	100.3996	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_019		0 17G	G11_019	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03425	100.7926	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03487	100.3996	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_020		0 17G	G11_020	TO->FROM	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	124	0.03425	100.7926	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	3		0 17G	G11_008	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	148.2	0.05159	111.2937	DBL-CLRK-THI
FDNS	03ALL		0 17G	G11_016	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	148.2	0.05134	104.459	DBL-IRON-CLR
FDNS	3		0 17G	G11_016	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	148.2	0.05159	111.2937	DBL-CLRK-THI
FDNS	03G11_016		0 17G	G11_016	TO->FROM	GREENSBURG - SSTARTP3 115.00 115KV CKT 1	148.2	0.05147	115.259	DBL-CLRK-THI
FDNS	3		0 17G	G11_008	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	150.4	0.05159	104.5616	DBL-CLRK-THI
FDNS	3		0 17G	G11_016	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	150.4	0.05159	104.5616	DBL-CLRK-THI
FDNS	03G11_016		0 17G	G11_016	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	150.4	0.05147	108.4386	DBL-CLRK-THI
FDNS	03ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03056	99.6	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03035	113.8144	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03033	113.8651	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03035	101.5153	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03033	101.5696	WOODWARD - WOODWARD 69KV CKT 1
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03471	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03471	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03471	100.9856	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03471	100.9856	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03266	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03266	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03203	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03203	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03471	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03471	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03471	100.9856	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03471	100.9856	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03266	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03266	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03203	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03203	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03228	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03228	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03227	99.6	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03227	99.6	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03022	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03022	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02963	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02963	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03228	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03228	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03227	99.6	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03227	99.6	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03022	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03022	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02963	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02963	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05054	109.1143	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE@		TC@LOADING		CONTINGENCY
							MVA	TDF	(% MVA)		
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04866	122.6237	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05023	136.0238	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05021	136.1387	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04759	187.5888	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04699	103.9011	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04698	104.0936	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04504	107.4491	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04416	153.3368	STLN-DEMARC6 - SWEETWATER 230KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04699	103.9206	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04698	104.1171	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04504	107.4588	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04416	153.3616	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04699	103.9178	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04698	104.1142	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04504	107.4552	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04416	153.3577	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03465	128.0832	P12:138:WFEC:MSL14	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03541	104.0696	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03541	104.0696	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03456	140.0743	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03456	140.0743	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1	
FDNS	3		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05056	103.5816	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1	
FDNS	03ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05054	121.4783	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1	
FDNS	1		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05112	133.4844	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05023	147.5545	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05021	147.7176	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04866	185.6107	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04759	200.3572	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03731	105.4252	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03731	105.4252	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0373	105.5514	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0373	105.5514	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03541	112.3389	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03541	112.3389	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03456	152.4435	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03456	152.4435	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03484	113.3295	IODINE - WOODWARD EHV 138KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03483	113.3874	IODINE - WOODWARD EHV 138KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03276	126.6412	IODINE - WOODWARD EHV 138KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0321	161.2742	IODINE - WOODWARD EHV 138KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03131	120.1023	IODINE - MOORELAND 138KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03074	138.3445	IODINE - MOORELAND 138KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03736	99	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03736	99	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03734	99.2	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03734	99.2	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03463	145.4404	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03463	145.4404	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03523	100.8427	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03523	100.8427	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03522	100.9277	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03522	100.9277	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03319	113.2848	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03319	113.2848	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03252	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03252	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03131	122.1142	FT SUPPLY - IODINE 138KV CKT 1	
FDNS	02ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03074	140.2688	FT SUPPLY - IODINE 138KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03464	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03464	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03463	105.7573	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03463	105.7573	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03256	113.251	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03256	113.251	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1	
FDNS	2		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03464	104.0307	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1	
FDNS	02ASGI_11_002		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03463	104.1724	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1	
FDNS	01ALL		017G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03256	112.3302	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1	

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03076	104.0836	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03018	136.5005	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04699	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04699	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04698	113.1598	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04698	113.1598	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04504	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04504	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04416	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04416	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04699	113.0905	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04698	113.162	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04504	115.4932	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04416	162.702	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03018	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03018	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03018	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03484	111.9112	DEWEY - IODINE 138KV CKT 1
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03483	111.9697	DEWEY - IODINE 138KV CKT 1
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03276	124.9702	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0321	159.8702	DEWEY - IODINE 138KV CKT 1
FDNS	1		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05317	116.2179	DBL-THIS-WWR
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05236	135.3471	DBL-THIS-WWR
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05236	135.5194	DBL-THIS-WWR
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05047	168.1653	DBL-THIS-WWR
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0495	192.1746	DBL-THIS-WWR
FDNS	3		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04418	102.5983	DBL-THIS-WIC
FDNS	1		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04454	102.7112	DBL-THIS-WIC
FDNS	03ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04411	127.5528	DBL-THIS-WIC
FDNS	2		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04381	131.2197	DBL-THIS-WIC
FDNS	02ASGI_11_002		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0438	131.3193	DBL-THIS-WIC
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04191	148.3678	DBL-THIS-WIC
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04105	182.3514	DBL-THIS-WIC
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03076	106.1063	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03018	138.4899	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03076	105.7841	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03018	138.1762	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03303	106.9592	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03242	144.9738	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03303	106.6137	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03242	144.6442	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03303	105.6437	BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03242	143.739	BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	01ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03303	105.0707	BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03242	143.1892	BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03465	129.4044	BEARCAT 138.00 - NINE MILE 138KV CKT 1
FDNS	02ALL		0 17G	ASGI_11_002	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03465	127.9695	BEARCAT 138.00 - MOORELAND 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0305	110.9292	WOODWARD DISTRICT EHV (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03005	120.9111	WOODWARD DISTRICT EHV (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03066	110.7418	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03021	121.5139	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04016	99.6	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03995	113.8144	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03769	134.8861	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03714	162.8941	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03258	129.7116	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03016	102.1586	WOODWARD - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02971	117.8071	WOODWARD - WOODWARD EHV 138KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03995	101.5153	WOODWARD - WOODWARD 69KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03769	122.2758	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03714	148.1824	WOODWARD - WOODWARD 69KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03425	114.9437	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03375	138.452	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03256	137.4108	WAKITA4 138.00 - WAKITAS4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03969	105.8061	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02961	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02961	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02961	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02961	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04222	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04222	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04016	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04016	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03957	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03957	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04222	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04222	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04016	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04016	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03957	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03957	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05278	109.1143	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0509	122.6237	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05247	136.0238	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04983	187.5888	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03714	103.9011	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03518	107.4491	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0343	153.3368	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03714	103.9206	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03518	107.4588	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0343	153.3616	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.7566	SHERBURNE CO 345/24.0KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.0653	SHERBURNE CO 345/24.0KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03249	102.2587	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03203	127.1085	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03484	116.3918	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03434	139.1198	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03912	136.5151	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03307	113.686	RENFROW4 138.00 - WAKITAS4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03268	139.4836	RENFROW4 138.00 - WAKITAS4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03307	114.6307	RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03268	140.7816	RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03585	106.8128	RANCHRD7 345.00 - SOONER 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03587	116.4237	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03587	116.4237	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03687	112.7063	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03687	112.7063	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03635	137.1349	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03635	137.1349	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03714	103.9178	P12:230:AEPW-SPS-SWEETW6:WHEELER 6
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03518	107.4552	P12:230:AEPW-SPS-SWEETW6:WHEELER 6
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0343	153.3577	P12:230:AEPW-SPS-SWEETW6:WHEELER 6
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03256	121.6063	P12:138:WFEC:MSL15
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03023	113.1956	P12:138:WFEC:MSL12
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03429	107.1973	P12:138:OKGE:3TERM7
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03316	130.7929	P12:138:AEPW-OG:WTH_JCT4:JENSEN4
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03273	128.6349	P12:138:AEPW-HOB-JCT4:ELKCTY-4
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03585	106.9166	OPENSKY7 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03585	106.8371	OPENSKY7 345.00 - RANCHRD7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03522	104.0696	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03522	104.0696	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03437	140.0743	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03437	140.0743	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03256	121.8064	NOEL_SW 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03163	109.2327	NOEL_SW 138.00 - ROSE_VALLEY 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03446	107.345	NEWKIRK4 - PECKHAM TAP 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03446	107.2156	NEWKIRK4 - NWKRKAT4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03474	135.1749	MOORELAND (MOORELND) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03254	127.236	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03163	106.9261	MOORELAND - ROSE_VALLEY 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03023	113.3386	MOORELAND - PIC4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03456	136.6145	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03456	136.6145	MINGO - SETAB 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03446	107.4125	MIDLNT4 138.00 - PECKHAM TAP 138KV CKT 1
FDNS	3		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05279	103.5816	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	03G11_008		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05282	107.3292	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05278	121.4783	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	1		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05335	133.4844	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05247	147.5545	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0509	185.6107	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04983	200.3572	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03711	105.4252	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03711	105.4252	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03522	112.3389	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03522	112.3389	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03437	152.4435	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03437	152.4435	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03363	106.8712	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03314	129.336	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03363	106.8443	KNOBHILL - NOEL_SW 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03314	129.3039	KNOBHILL - NOEL_SW 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03446	107.0979	KILDARE4 - NWKRKAT4 138.00 138KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04238	113.3295	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04029	126.6412	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03963	161.2742	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03482	120.1023	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03425	138.3445	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03032	121.1821	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03426	136.5602	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03426	136.5602	HOLCOMB - SETAB 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03587	113.8301	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03587	113.8301	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03656	99	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03656	99	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03383	145.4404	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03383	145.4404	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03652	100.8427	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03652	100.8427	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03447	113.2848	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03447	113.2848	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0338	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0338	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0303	112.3032	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	104.2919	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	127.4007	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.7914	GEN659111 2-LELAND OLDS UNIT2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.397	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.613	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.397	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.613	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.0358	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.2632	GEN645012 2-NEBRASKA CITY 2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.3199	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.5633	GEN645001 1-FORT CALHOUN 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.7397	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.9842	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.831	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.0622	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.8116	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.0184	GEN640009 1-COOPER NUCLEAR STATION
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.4717	GEN635214 4-NEAL UNIT 4
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.8187	GEN635214 4-NEAL UNIT 4
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.313	GEN635213 3-NEAL UNIT 3
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	105.8055	GEN635024 4-WALTER SCOTT UNIT 4
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.1693	GEN635024 4-WALTER SCOTT UNIT 4
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.2948	GEN635023 3-WALTER SCOTT UNIT 3
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.6511	GEN635023 3-WALTER SCOTT UNIT 3
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.2829	GEN629075 1-OTTUMWA GENERATOR FOR OTTUMWA UNIT NO 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.6265	GEN629075 1-OTTUMWA GENERATOR FOR OTTUMWA UNIT NO 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.8977	GEN615001 1-COAL CREEK
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.2278	GEN615001 1-COAL CREEK
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.2956	GEN600005 1-MONTICELLO

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.6223	GEN600005 1-MONTICELLO
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.2899	GEN600002 3-SHERBURNE CNTY G3
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.6275	GEN600002 3-SHERBURNE CNTY G3
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.0819	GEN600001 2-SHERBURNE CNTY G2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.4056	GEN600001 2-SHERBURNE CNTY G2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.9401	GEN600000 1-SHERBURNECNTY G1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.2719	GEN600000 1-SHERBURNECNTY G1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	124.5284	GEN562042 1-G11_014_3 0.6900
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.249	GEN562026 1-G11_019_3 0.6900
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.249	GEN562023 1-G11_020_3 0.6900
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	122.4552	GEN562017 1-G11_022_3 0.6900
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	112.301	GEN560773 1-BUFBER-WTG1 0.6000
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.521	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.1373	GEN560585 1-G06-44-3 4.1600
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	126.9044	GEN560287 1-G10-01-2WTG 0.6900
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	126.9044	GEN560286 1-G10-01-1WTG 0.6900
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	126.4914	GEN560257 1-G10-14-2 0.6900
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	126.6636	GEN560256 1-G10-14-1 0.6900
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	101.6105	GEN560219 1-G07_062_8 0.6900
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	99.7	GEN560218 1-G07_062_7 0.6900
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	99.7	GEN560217 1-G07_062_6 0.6900
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	115.4029	GEN560183 1-REDHIL-WTG1 12.000
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	139.258	GEN560183 1-REDHIL-WTG1 12.000
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.0415	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.2394	GEN542962 2-IATAN UNIT #2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.372	GEN542957 1-IATAN UNIT #1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.5791	GEN542957 1-IATAN UNIT #1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.1979	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.3075	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.8387	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.1174	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.7836	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.9941	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.7832	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.9937	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.7665	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.9715	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	103.8521	GEN531447 1-HOLCOMB GENERATOR
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	126.5632	GEN531447 1-HOLCOMB GENERATOR
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.1878	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	128.4588	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.1534	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.9825	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.1534	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.9825	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.3026	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.2441	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.752	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.2143	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.989	GEN526332 1-JONES GEN #2 21 KV
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.3011	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	128.2001	GEN526331 1-JONES GEN #1 22 KV
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.2537	GEN525844 1-ELK_1 118.000
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	129.7073	GEN525844 1-ELK_1 118.000
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	122.4785	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	125.1283	GEN524295 1-SPNSPUR_WND10.6900
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	105.3598	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	127.1492	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	105.3607	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	127.154	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	105.3601	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	127.1494	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	03ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0362	99.8	GEN520998 1-MORLND3
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.036	112.4465	GEN520998 1-MORLND3
FDNS	03ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0362	99.8	GEN520997 1-MORLND2
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.036	112.4576	GEN520997 1-MORLND2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	125.3624	GEN520997 1-MORLND2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE@ MVA	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	151.4061	GEN520997 1-MORLND2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	111.986	GEN520947 1-HUGO1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	135.4098	GEN520947 1-HUGO1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	126.7117	GEN520922 1-SLEEPING BEAR
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	136.3477	GEN520922 1-SLEEPING BEAR
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	132.7458	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	137.2867	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.1104	GEN515632 1-SLINGW21 0.6900
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	99.7	GEN515611 1-NBUFFRG1 0.6900
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	123.055	GEN515591 1-PALDRW11 0.6900
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.9212	GEN515586 1-MMTHPW11 0.5750
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	106.8621	GEN515583 1-SLINGW11 0.6900
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.0734	GEN515450 1-CRSRDW21 0.6900
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.183	GEN515449 1-CRSRDW11 0.6900
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	101.1449	GEN515397 1-OUSPRT 1 0.6900
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.4076	GEN515393 1-OGEWND2G
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	117.0077	GEN515389 1-TLGWND-WT61 0.7000
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	130.4058	GEN515365 1-CENT 21 0.7000
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	111.9258	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	111.6807	GEN515225 1-MUSKOGEE 5G
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	111.6807	GEN515223 1-MUSKOGEE 4G
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	113.3321	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	136.5426	GEN514806 1-SOONER UNIT 2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	115.2682	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	138.2469	GEN514805 1-SOONER UNIT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	111.7874	GEN511848 1-SOUTHWESTERN STATION #3
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	135.368	GEN511848 1-SOUTHWESTERN STATION #3
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	111.6272	GEN511843 1-RIVERSIDE STATION #2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	112.0431	GEN509416 1-TURK GENERATION
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	135.4432	GEN509416 1-TURK GENERATION
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	111.4537	GEN509406 1-WELSH #3
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	111.4535	GEN509404 1-WELSH #1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	111.8472	GEN509403 1-PIRKEY GENERATION
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	111.6674	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	135.2046	GEN501801 1-DOLET HILLS UNIT1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	112.2519	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	135.7798	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	111.8237	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	135.352	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	112.3164	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	135.7935	GEN336821 1-GRAND GULF UNIT
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	111.9177	GEN336153 1-WATERFORD UNIT#3
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	135.4386	GEN336153 1-WATERFORD UNIT#3
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	111.641	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	135.1631	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03371	111.6359	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03329	117.7449	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03371	111.6359	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03329	117.7449	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03482	122.1142	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03425	140.2688	FT SUPPLY - IODINE 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03463	111.4482	FLATRDG3 - HARPER 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03463	111.4482	FLATRDG3 - HARPER 138KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03244	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03244	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03036	113.251	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03036	113.251	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03244	104.0307	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03036	112.3302	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.032	104.0836	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03141	136.5005	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03714	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03714	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03518	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03518	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0343	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0343	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03714	113.0905	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03518	115.4932	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0343	162.702	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03141	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03141	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03321	135.239	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	131.152	EAGLE CHIEF 69KV SWITCHED SHUNT
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03079	123.1752	DOVER SW - OKEENE 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03447	125.6184	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.034	138.9702	DEWEY - TALOGA 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03249	101.5909	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03203	126.4925	DEWEY - SOUTHARD 138KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04238	111.9112	DEWEY - IODINE 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04029	124.9702	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03963	159.8702	DEWEY - IODINE 138KV CKT 1
FDNS	3		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06232	102.5983	DBL-THIS-WIC
FDNS	1		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06268	102.7112	DBL-THIS-WIC
FDNS	03G11_008		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06234	108.1359	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06225	127.5528	DBL-THIS-WIC
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06195	131.2197	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06005	148.3678	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05919	182.3514	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03991	131.6319	DBL-IRON-CLR
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03277	132.8514	DBL-HTCH-BVR
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03277	122.2779	DBL-G1114-WW
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03277	124.386	DBL-BVR-G111
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.032	106.1063	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03141	138.4899	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.032	105.7841	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03141	138.1762	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03331	106.742	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03331	106.742	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03289	125.6421	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03289	125.6421	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03273	128.8975	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03273	128.6771	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03032	120.5826	CLEOPLT4 138.00 - MEN TAP 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0303	113.2652	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03032	119.8169	CLEO CORNER - CLEOPLT4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03455	106.9592	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03395	144.9738	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03455	106.6137	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03395	144.6442	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03023	113.6902	CEDARDALE - PIC4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03023	114.2248	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03527	112.0569	CARTER JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03474	136.1703	CARTER JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03474	135.1754	CARTER JCT - MOORELAND 69KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03334	131.0917	CARMEN - EAGLE CHIEF 69KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03295	100.2675	C_CITY_138 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03256	125.3065	C_CITY_138 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03295	105.414	BYRON_138 138.00 - SANDY_CN 138138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03256	128.6175	BYRON_138 138.00 - SANDY_CN 138138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03295	100.6447	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03256	125.5612	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03335	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03335	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03335	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03336	128.9344	BVRCNTY7 345.00 - G11-14T 345.00 345KV CKT 2
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03336	128.9344	BVRCNTY7 345.00 - G11-14T 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03681	125.1454	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03656	138.8268	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03681	125.0217	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03681	125.0217	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03656	138.9576	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03656	138.9576	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE@ MVA	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	107.4182	BIG STONE 230/24.0KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03455	105.6437	BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03395	143.739	BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03455	105.0707	BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03395	143.1892	BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	2		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.036	103.1057	BASE CASE
FDNS	01ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03389	125.8855	BASE CASE
FDNS	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	152.9834	BASE CASE
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0539	110.9292	WOODWARD DISTRICT EHV (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05345	120.9111	WOODWARD DISTRICT EHV (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05418	110.7418	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05373	121.5139	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06839	99.6	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06818	113.8144	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06817	115.8562	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06592	134.8861	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06537	162.8941	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05788	129.7116	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05331	102.1586	WOODWARD - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05286	117.8071	WOODWARD - WOODWARD EHV 138KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06818	101.5153	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06817	103.5852	WOODWARD - WOODWARD 69KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06592	122.2758	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06537	148.1824	WOODWARD - WOODWARD 69KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05921	114.9437	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05872	138.452	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05454	137.4108	WAKITA4 138.00 - WAKITA54 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06147	105.8061	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06999	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06999	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06998	103.043	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06998	103.043	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06794	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06794	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06999	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06999	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06998	103.043	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06998	103.043	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06794	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06794	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06637	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06637	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06636	101.5501	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06636	101.5501	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06431	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06431	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06372	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06372	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06637	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06637	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06636	101.5501	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06636	101.5501	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06431	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06431	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06372	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06372	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09264	109.1143	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09076	122.6237	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09233	136.0238	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09232	138.7553	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08969	187.5888	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	103.9011	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	106.0143	STLN-DEMARC6 - SWEETWATER 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE MVA)	TDF	TC LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06536	107.4491	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06448	153.3368	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	103.9206	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	106.0342	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06536	107.4588	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06448	153.3616	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.7566	SHERBURNE CO 345/24.0KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.0653	SHERBURNE CO 345/24.0KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05738	102.2587	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05692	127.1085	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06135	99.2	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05921	116.3918	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05871	139.1198	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06091	136.5151	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05471	113.686	RENFROW4 138.00 - WAKITAS4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05433	139.4836	RENFROW4 138.00 - WAKITAS4 138.00 138KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05703	100.2504	RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05471	114.6307	RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05433	140.7816	RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06049	106.8128	RANCHRD7 345.00 - SOONER 345KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06557	100.2682	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06557	100.2682	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06341	116.4237	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06341	116.4237	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06095	112.7063	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06095	112.7063	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06043	137.1349	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06043	137.1349	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	103.9178	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	106.0314	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06536	107.4552	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06448	153.3577	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05454	121.6063	P12:138:WFEC:MSL15
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05561	128.0832	P12:138:WFEC:MSL14
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05281	113.1956	P12:138:WFEC:MSL12
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05983	107.1973	P12:138:OKGE:3TERM7
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05863	130.7929	P12:138:AEPW-OG:WTH_JCT4:JENSEN4
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05779	128.6349	P12:138:AEPW:HOB-JCT4:ELKTY-4
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06049	106.9166	OPENSKY7 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06049	106.8371	OPENSKY7 345.00 - RANCHRD7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06407	104.0696	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06407	104.0696	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06322	140.0743	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06322	140.0743	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05454	121.8064	NOEL_SW 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05304	109.2327	NOEL_SW 138.00 - ROSE_VALLEY 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05998	107.345	NEWKIRK4 - PECKHAM TAP 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05998	107.2156	NEWKIRK4 - NWKRKAT4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06192	135.1749	MOORELAND (MOORELND) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05794	127.236	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05304	106.9261	MOORELAND - ROSE_VALLEY 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05281	113.3386	MOORELAND - PIC4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06069	136.6145	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06069	136.6145	MINGO - SETAB 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05998	107.4125	MIDLNT4 138.00 - PECKHAM TAP 138KV CKT 1
FDNS	3		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09266	103.5816	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	ROMAN NOSE - SOUTHARD 138KV CKT 1	153	0.03927	105.7012	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09264	121.4783	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	1		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09322	133.4844	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09233	147.5545	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09232	150.3024	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09076	185.6107	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08969	200.3572	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06597	105.4252	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06597	105.4252	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06596	107.51	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06596	107.51	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06407	112.3389	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06407	112.3389	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06322	152.4435	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06322	152.4435	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05951	106.8712	KNOBHILL (KNOBHILA) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05901	129.336	KNOBHILL (KNOBHILA) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05951	106.8443	KNOBHILL - NOEL_SW 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05901	129.3039	KNOBHILL - NOEL_SW 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05998	107.0979	KILDARE4 - NWKRKATA 138.00 138KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07298	113.3295	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07297	115.4782	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0709	126.6412	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07024	161.2742	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06282	120.1023	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06225	138.3445	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0525	121.1821	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06041	136.5602	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06041	136.5602	HOLCOMB - SETAB 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06341	113.8301	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06341	113.8301	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06455	99	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06455	99	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06454	101.0619	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06454	101.0619	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06183	145.4404	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06183	145.4404	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06427	100.8427	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06427	100.8427	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06426	102.8046	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06426	102.8046	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06222	113.2848	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06222	113.2848	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06155	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06155	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05175	112.3032	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	104.2919	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	127.4007	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.7914	GEN659111 2-LELAND OLDS UNIT2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.397	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.613	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.397	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.613	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.0358	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.2632	GEN645012 2-NEBRASKA CITY 2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.3199	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.5633	GEN645001 1-FORT CALHOUN 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.7397	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.9842	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.831	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.0622	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.8116	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.0184	GEN640009 1-COOPER NUCLEAR STATION
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.4717	GEN635214 4-NEAL UNIT 4
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.8187	GEN635214 4-NEAL UNIT 4
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.313	GEN635213 3-NEAL UNIT 3
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	105.8055	GEN635024 4-WALTER SCOTT UNIT 4
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.1693	GEN635024 4-WALTER SCOTT UNIT 4
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.2948	GEN635023 3-WALTER SCOTT UNIT 3
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.6511	GEN635023 3-WALTER SCOTT UNIT 3
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.2829	GEN629075 1-OTTUMWA GENERATOR FOR OTTUMWA UNIT NO 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.6265	GEN629075 1-OTTUMWA GENERATOR FOR OTTUMWA UNIT NO 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.8977	GEN615001 1-COAL CREEK
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.2278	GEN615001 1-COAL CREEK
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.2956	GEN600005 1-MONTICELLO
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.6223	GEN600005 1-MONTICELLO
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.2899	GEN600002 3-SHERBURNE CNTY G3
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.6275	GEN600002 3-SHERBURNE CNTY G3

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.0819	GEN600001 2-SHERBURNE CNTY G2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.4056	GEN600001 2-SHERBURNE CNTY G2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.9401	GEN600000 1-SHERBURNECNTY G1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.2719	GEN600000 1-SHERBURNECNTY G1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	124.5284	GEN562042 1-G11_014_3 0.6900
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.249	GEN562026 1-G11_019_3 0.6900
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.249	GEN562023 1-G11_020_3 0.6900
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	122.4552	GEN562017 1-G11_022_3 0.6900
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	112.301	GEN560773 1-BUFBER-WTG1 0.6000
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.521	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.1373	GEN560585 1-G06-44-3 4.1600
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	126.9044	GEN560287 1-G10-01-2WTG 0.6900
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	126.9044	GEN560286 1-G10-01-1WTG 0.6900
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	126.4914	GEN560257 1-G10-14-2 0.6900
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	126.6636	GEN560256 1-G10-14-1 0.6900
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	101.6105	GEN560219 1-G07_062_8 0.6900
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	99.7	GEN560218 1-G07_062_7 0.6900
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	99.7	GEN560217 1-G07_062_6 0.6900
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	115.4029	GEN560183 1-REDHIL-WTG1 12.000
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	139.258	GEN560183 1-REDHIL-WTG1 12.000
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.0415	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.2394	GEN542962 2-IATAN UNIT #2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.372	GEN542957 1-IATAN UNIT #1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.5791	GEN542957 1-IATAN UNIT #1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.1979	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.3075	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.8387	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.1174	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.7836	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.9941	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.7832	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.9937	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.7665	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.9715	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	103.8521	GEN531447 1-HOLCOMB GENERATOR
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	126.5632	GEN531447 1-HOLCOMB GENERATOR
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.1878	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	128.4588	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.1534	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.9825	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.1534	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.9825	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.3026	GEN527882 1-CURNINGHAM GEN #2 20 KV
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.2441	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.752	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.2143	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.989	GEN526332 1-JONES GEN #2 21 KV
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.3011	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	128.2001	GEN526331 1-JONES GEN #1 22 KV
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.2537	GEN525844 1-ELK_1 118.000
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	129.7073	GEN525844 1-ELK_1 118.000
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	122.4785	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	125.1283	GEN524295 1-SPNSPUR_WND10.6900
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	105.3598	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	127.1492	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	105.3607	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	127.154	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	105.3601	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	127.1494	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	03ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06211	99.8	GEN520998 1-MORLND3
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06191	112.4465	GEN520998 1-MORLND3
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0619	114.091	GEN520998 1-MORLND3
FDNS	03ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06211	99.8	GEN520997 1-MORLND2
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06191	112.4576	GEN520997 1-MORLND2
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0619	114.1024	GEN520997 1-MORLND2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	125.3624	GEN520997 1-MORLND2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	151.4061	GEN520997 1-MORLND2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	111.986	GEN520947 1-HUGO1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	135.4098	GEN520947 1-HUGO1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	126.7117	GEN520922 1-SLEEPING BEAR
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	136.3477	GEN520922 1-SLEEPING BEAR
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	132.7458	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	137.2867	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.1104	GEN515632 1-SLINGW21 0.6900
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	99.7	GEN515611 1-NBUFFRG1 0.6900
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	123.055	GEN515591 1-PALDRW11 0.6900
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.9212	GEN515586 1-MMTHPW11 0.5750
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	106.8621	GEN515583 1-SLINGW11 0.6900
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.0734	GEN514540 1-CRSRDW21 0.6900
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.183	GEN514449 1-CRSRDW11 0.6900
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	101.1449	GEN515397 1-OU5PRT 1 0.6900
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.4076	GEN515393 1-0GEWWD2G
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	117.0077	GEN515389 1-TLWWD-WTG1 0.7000
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	130.4058	GEN515365 1-CENT 21 0.7000
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	111.9258	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	111.6807	GEN515225 1-MUSKOGEE 5G
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	111.6807	GEN515223 1-MUSKOGEE 4G
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	113.3321	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	136.5426	GEN514806 1-SOONER UNIT 2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	115.2682	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	138.2469	GEN514805 1-SOONER UNIT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	111.7874	GEN511848 1-SOUTHWESTERN STATION #3
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	135.368	GEN511848 1-SOUTHWESTERN STATION #3
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	111.6272	GEN511843 1-RIVERSIDE STATION #2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	112.0431	GEN509416 1-TURK GENERATION
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	135.4432	GEN509416 1-TURK GENERATION
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	111.4537	GEN509406 1-WELSH #3
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	111.4535	GEN509404 1-WELSH #1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	111.8472	GEN509403 1-PIRKEY GENERATION
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	111.6674	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	135.2046	GEN501801 1-DOLET HILLS UNIT1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	112.2519	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	135.7798	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	111.8237	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	135.352	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	112.3164	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	135.7935	GEN336821 1-GRAND GULF UNIT
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	111.9177	GEN336153 1-WATERFORD UNIT#3
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	135.4386	GEN336153 1-WATERFORD UNIT#3
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	111.641	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	135.1631	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04985	111.6359	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	117.7449	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04985	111.6359	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04943	117.7449	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06282	122.1142	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06225	140.2688	FT SUPPLY - IODINE 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06029	111.4482	FLATRDG3 - HARPER 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06029	111.4482	FLATRDG3 - HARPER 138KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06766	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06766	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06765	106.9938	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06765	106.9938	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06557	113.251	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06557	113.251	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06766	104.0307	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06765	105.388	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06557	112.3302	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0581	104.0836	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05752	136.5005	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	115.0831	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	115.0831	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06536	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06536	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06448	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06448	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	113.0905	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06731	115.0854	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06536	115.4932	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06448	162.702	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05752	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05752	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05914	135.239	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	131.152	EAGLE CHIEF 69KV SWITCHED SHUNT
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05368	123.1752	DOVER SW - OKEENE 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0609	125.6184	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06043	138.9702	DEWEY - TALOGA 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05738	101.5909	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05692	126.4925	DEWEY - SOUTHARD 138KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07298	111.9112	DEWEY - IODINE 138KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07297	114.0647	DEWEY - IODINE 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0709	124.9702	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07024	159.8702	DEWEY - IODINE 138KV CKT 1
FDNS	1		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09432	116.2179	DBL-THIS-WWR
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09351	135.3471	DBL-THIS-WWR
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09351	138.3665	DBL-THIS-WWR
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09162	168.1653	DBL-THIS-WWR
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09065	192.1746	DBL-THIS-WWR
FDNS	3		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08089	102.5983	DBL-THIS-WIC
FDNS	1		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08125	102.7112	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08081	127.5528	DBL-THIS-WIC
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08052	131.2197	DBL-THIS-WIC
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08051	133.7205	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07861	148.3678	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07776	182.3514	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05932	131.6319	DBL-IRON-CLR
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0959	132.8514	DBL-HTCH-BVR
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05932	130.7312	DBL-CLRK-THI
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0959	124.386	DBL-BVR-G111
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0581	106.1063	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05752	138.4899	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0581	105.7841	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05752	138.1762	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05818	106.742	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05818	106.742	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05776	125.6421	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05776	125.6421	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05779	128.8975	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05779	128.6771	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0525	120.5826	CLEOPLT4 138.00 - MEN TAP 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05175	113.2652	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0525	119.8169	CLEO CORNER - CLEOPLT4 138.00 138KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06521	99.4	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0631	106.9592	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0625	144.9738	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06521	99.1	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0631	106.6137	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0625	144.6442	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05281	113.6902	CEDARDALE - PIC4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05281	114.2248	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06245	112.0569	CARTER JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06192	136.1703	CARTER JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06192	135.1754	CARTER JCT - MOORELAND 69KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05926	131.0917	CARMEN - EAGLE CHIEF 69KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05493	100.2675	C_CITY_138 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05454	125.3065	C_CITY_138 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05493	105.414	BYRON_138 138.00 - SANDY_CN_138138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05454	128.6175	BYRON_138 138.00 - SANDY_CN_138138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05493	100.6447	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE@ MVA	TC%LOADING TDF (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05454	125.5612 BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06172	130.2199 BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06172	130.2199 BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06172	130.2199 BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06172	130.2199 BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06104	128.9344 BVRCNTY7 345.00 - G11-14T 345.00 345KV CKT 2
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06104	128.9344 BVRCNTY7 345.00 - G11-14T 345.00 345KV CKT 1
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06466	99.1 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06246	125.1454 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06221	138.8268 BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06246	125.0217 BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06246	125.0217 BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06221	138.9576 BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06221	138.9576 BORDER 7345.00 - TUCCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	107.4182 BIG STONE 230/24.0KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0631	105.6437 BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0625	143.739 BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0631	105.0707 BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0625	143.1892 BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05561	129.4044 BEARCAT 138.00 - NINE MILE 138KV CKT 1
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05561	127.9695 BEARCAT 138.00 - MOORELAND 138KV CKT 1
FDNS	2		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06191	103.1057 BASE CASE
FDNS	02G11_014		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0619	105.2681 BASE CASE
FDNS	01ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0598	125.8855 BASE CASE
FDNS	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	152.9834 BASE CASE
FDNS	03ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03833	99.6 WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03812	113.8144 WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03586	134.8861 WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03531	162.8941 WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03104	129.7116 WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03812	101.5153 WOODWARD - WOODWARD 69KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03586	122.2758 WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03531	148.1824 WOODWARD - WOODWARD 69KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03264	114.9437 WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03214	138.452 WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03097	137.4108 WAKITA4 138.00 - WAKITA4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03785	105.8061 VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03965	99.5 THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03965	99.5 THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03759	118.6207 THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03759	118.6207 THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.037	143.9972 THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.037	143.9972 THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03965	99.5 THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03965	99.5 THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03759	118.6207 THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03759	118.6207 THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.037	143.9972 THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.037	143.9972 THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05059	109.1143 TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04871	122.6237 TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05028	136.0238 TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04764	187.5888 TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03578	103.9011 STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03382	107.4491 STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	153.3368 STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03578	103.9206 STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03382	107.4588 STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	153.3616 STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.7566 SHERBURNE CO 345/24.0KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.0653 SHERBURNE CO 345/24.0KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03095	102.2587 ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	127.1085 ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0332	116.3918 RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0327	139.1198 RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03728	136.5151 RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03147	113.686 RENFROW4 138.00 - WAKITA54 138.00 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE@ MVA	TC@LOADING TDF (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03109	139.4836 RENFROW4 138.00 - WAKITAS4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03147	114.6307 RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03109	140.7816 RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03421	106.8128 RANCHRD7 345.00 - SOONER 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03439	116.4237 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03439	116.4237 POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03595	112.7063 POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03595	112.7063 POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03542	137.1349 POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03542	137.1349 POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03578	103.9178 P12:230: AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03382	107.4552 P12:230: AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	153.3577 P12:230: AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03097	121.6063 P12:138: WFEC:MSL15
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03269	107.1973 P12:138: OKGE:3TERM7
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03156	130.7929 P12:138: AEPW-OGC:WTH_JCT4:JENSEN4
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03113	128.6349 P12:138: AEPW:HOB-JCT4:ELKCTY-4
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03421	106.9166 OPENSKY7 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03421	106.8371 OPENSKY7 345.00 - RANCHRD7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03368	104.0696 OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03368	104.0696 OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03283	140.0743 OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03283	140.0743 OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03097	121.8064 NOEL_SW 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03008	109.2327 NOEL_SW 138.00 - ROSE_VALLEY 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03285	107.345 NEWKIRK4 - PECKHAM TAP 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03285	107.2156 NEWKIRK4 - NWKRKAT4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03311	135.1749 MOORELAND (MOORELND) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03095	127.236 MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03008	106.9261 MOORELAND - ROSE_VALLEY 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03316	136.6145 MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03316	136.6145 MINGO - SETAB 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03285	107.4125 MIDLTNT4 138.00 - PECKHAM TAP 138KV CKT 1
FDNS	3		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05061	103.5816 MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	03G11_016		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05056	105.2641 MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05059	121.4783 MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	1		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05117	133.4844 MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05028	147.5545 MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04871	185.6107 MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04764	200.3572 MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03558	105.4252 LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03558	105.4252 LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03368	112.3389 LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03368	112.3389 LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03283	152.4435 LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03283	152.4435 LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03206	106.8712 KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03156	129.336 KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03206	106.8443 KNOBHILL - NOEL_SW 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03156	129.3039 KNOBHILL - NOEL_SW 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03285	107.0979 KILDARE4 - NWKRKAT4 138.00 138KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04053	113.3295 IODINE - WOODWARD EHV 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03844	126.6412 IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03778	161.2742 IODINE - WOODWARD EHV 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	120.1023 IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0328	138.3445 IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03281	136.5602 HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03281	136.5602 HOLCOMB - SETAB 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03439	113.8301 Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03439	113.8301 Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03508	99 GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03508	99 GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03236	145.4404 GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03236	145.4404 GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03502	100.8427 GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03502	100.8427 GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.2848 GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03298	113.2848	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	104.2919	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	127.4007	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.7914	GEN659111 2-LELAND OLDS UNIT2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.397	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.613	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.397	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.613	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.0358	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.2632	GEN645012 2-NEBRASKA CITY 2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.3199	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.5633	GEN645001 1-FORT CALHOUN 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.7397	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.9842	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.831	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.0622	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.8116	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.0184	GEN640009 1-COOPER NUCLEAR STATION
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.4717	GEN635214 4-NEAL UNIT 4
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.8187	GEN635214 4-NEAL UNIT 4
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.313	GEN635213 3-NEAL UNIT 3
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	105.8055	GEN635024 4-WALTER SCOTT UNIT 4
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.1693	GEN635024 4-WALTER SCOTT UNIT 4
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.2948	GEN635023 3-WALTER SCOTT UNIT 3
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.6511	GEN635023 3-WALTER SCOTT UNIT 3
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.2829	GEN629075 1-OTTUMWA GENERATOR FOR OTTUMWA UNIT NO 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.6265	GEN629075 1-OTTUMWA GENERATOR FOR OTTUMWA UNIT NO 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.8977	GEN615001 1-COAL CREEK
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.2278	GEN615001 1-COAL CREEK
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.2956	GEN600005 1-MONTICELLO
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.6223	GEN600005 1-MONTICELLO
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.2899	GEN600002 3-SHERBURNE CNTY G3
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.6275	GEN600002 3-SHERBURNE CNTY G3
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.0819	GEN600001 2-SHERBURNE CNTY G2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.4056	GEN600001 2-SHERBURNE CNTY G2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.9401	GEN600000 1-SHERBURNECNTY G1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.2719	GEN600000 1-SHERBURNECNTY G1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	124.5284	GEN562042 1-G11_014_3 0.6900
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.249	GEN562026 1-G11_019_3 0.6900
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.249	GEN562023 1-G11_020_3 0.6900
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	122.4552	GEN562017 1-G11_022_3 0.6900
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	112.301	GEN560773 1-BUFBER-WTG1 0.6000
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.521	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.1373	GEN560585 1-G06-44-3 4.1600
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	126.9044	GEN560287 1-G10-01-2WTG 0.6900
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	126.9044	GEN560286 1-G10-01-1WTG 0.6900
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	126.4914	GEN560257 1-G10-14-2 0.6900
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	126.6636	GEN560256 1-G10-14-1 0.6900
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	101.6105	GEN560219 1-G07_062_8 0.6900
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	99.7	GEN560218 1-G07_062_7 0.6900
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	99.7	GEN560217 1-G07_062_6 0.6900
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	115.4029	GEN560183 1-REDHIL-WTG1 12.000
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	139.258	GEN560183 1-REDHIL-WTG1 12.000
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.0415	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.2394	GEN542962 2-IATAN UNIT #2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.372	GEN542957 1-IATAN UNIT #1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.5791	GEN542957 1-IATAN UNIT #1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.1979	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.3075	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.8387	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.1174	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.7836	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.9941	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.7832	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.9937	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.7665	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.9715	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	103.8521	GEN531447 1-HOLCOMB GENERATOR
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	126.5632	GEN531447 1-HOLCOMB GENERATOR
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.1878	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	128.4588	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.1534	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.9825	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.1534	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.9825	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.3026	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.2441	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.752	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.2143	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.989	GEN526332 1-JONES GEN #2 21 KV
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.3011	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	128.2001	GEN526331 1-JONES GEN #1 22 KV
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.2537	GEN525844 1-ELK_1 118.000
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	129.7073	GEN525844 1-ELK_1 118.000
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	122.4785	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	125.1283	GEN524295 1-SPNSPUR_WND10.6900
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	105.3598	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	127.1492	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	105.3607	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	127.154	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	105.3601	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	127.1494	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	03ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03462	99.8	GEN520998 1-MORLND3
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03442	112.4465	GEN520998 1-MORLND3
FDNS	03ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03462	99.8	GEN520997 1-MORLND2
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03442	112.4576	GEN520997 1-MORLND2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	125.3624	GEN520997 1-MORLND2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	151.4061	GEN520997 1-MORLND2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	111.986	GEN520947 1-HUGO1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	135.4098	GEN520947 1-HUGO1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	126.7117	GEN520922 1-SLEEPING BEAR
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	136.3477	GEN520922 1-SLEEPING BEAR
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	132.7458	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	137.2867	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.1104	GEN515632 1-SLINGW21 0.6900
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	99.7	GEN515611 1-NBUFFRG1 0.6900
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	123.055	GEN515591 1-PALDRW11 0.6900
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.9212	GEN515586 1-MMTHPW11 0.5750
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	106.8621	GEN515583 1-SLINGW11 0.6900
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.0734	GEN515450 1-CRSRDW21 0.6900
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.183	GEN515449 1-CRSRDW11 0.6900
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	101.1449	GEN515397 1-OUSPR1 0.6900
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.4076	GEN515393 1-OGEWND2G
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	117.0077	GEN515389 1-TLGWND-WTG1 0.7000
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	130.4058	GEN515365 1-CENT 21 0.7000
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	111.9258	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	111.6807	GEN515225 1-MUSKOGEE 5G
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	111.6807	GEN515223 1-MUSKOGEE 4G
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	113.3321	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	136.5426	GEN514806 1-SOONER UNIT 2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	115.2682	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	138.2469	GEN514805 1-SOONER UNIT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	111.7874	GEN511848 1-SOUTHWESTERN STATION #3
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	135.368	GEN511848 1-SOUTHWESTERN STATION #3
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	111.6272	GEN511843 1-RIVERSIDE STATION #2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	112.0431	GEN509416 1-TURK GENERATION
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	135.4432	GEN509416 1-TURK GENERATION
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	111.4537	GEN509406 1-WELSH #3
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	111.4535	GEN509404 1-WELSH #1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	111.8472	GEN509403 1-PIRKEY GENERATION
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	111.6674	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	135.2046	GEN501801 1-DOLET HILLS UNIT1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	112.2519	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	135.7798	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	111.8237	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	135.352	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	112.3164	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	135.7935	GEN336821 1-GRAND GULF UNIT
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	111.9177	GEN336153 1-WATERFORD UNIT#3
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	135.4386	GEN336153 1-WATERFORD UNIT#3
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	111.641	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	135.1631	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03166	111.6359	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03124	117.7449	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03166	111.6359	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03124	117.7449	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	122.1142	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0328	140.2688	FT SUPPLY - IODINE 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03297	111.4482	FLATRDG3 - HARPER 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03297	111.4482	FLATRDG3 - HARPER 138KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02976	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02976	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02976	104.0307	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03057	104.0836	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02999	136.5005	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03578	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03578	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03382	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03382	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03578	113.0905	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03382	115.4932	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03294	162.702	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02999	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02999	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	135.239	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	131.152	EAGLE CHIEF 69KV SWITCHED SHUNT
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03282	125.6184	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03235	138.9702	DEWEY - TALOGA 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03095	101.5909	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03049	126.4925	DEWEY - SOUTHARD 138KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04053	111.9112	DEWEY - IODINE 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03844	124.9702	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03778	159.8702	DEWEY - IODINE 138KV CKT 1
FDNS	3		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05665	102.5983	DBL-THIS-WIC
FDNS	1		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05701	102.7112	DBL-THIS-WIC
FDNS	03G11_016		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0566	104.9314	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05658	127.5528	DBL-THIS-WIC
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05628	131.2197	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05438	148.3678	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05352	182.3514	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03057	106.1063	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02999	138.4899	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03057	105.7841	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.02999	138.1762	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0317	106.742	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0317	106.742	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03127	125.6421	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03127	125.6421	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03113	128.8975	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03113	128.6771	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03319	106.9592	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03258	144.9738	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03319	106.6137	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03258	144.6442	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03365	112.0569	CARTER JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03311	136.1703	CARTER JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03311	135.1754	CARTER JCT - MOORELAND 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03176	131.0917	CARMEN - EAGLE CHIEF 69KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03136	100.2675	C_CITY_138 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03097	125.3065	C_CITY_138 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03136	105.414	BYRON_138 138.00 - SANDY_CN 138138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03097	128.6175	BYRON_138 138.00 - SANDY_CN 138138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03136	100.6447	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03097	125.5612	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03158	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03158	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03158	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03158	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	128.9344	BVRCNTY7 345.00 - G11-14T 345.00 345KV CKT 2
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03164	128.9344	BVRCNTY7 345.00 - G11-14T 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.035	125.1454	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03475	138.8268	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.035	125.0217	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.035	125.0217	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03475	138.9576	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03475	138.9576	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	107.4182	BIG STONE 230/24.0KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03319	105.6437	BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03258	143.739	BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03319	105.0707	BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03258	143.1892	BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	2		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03442	103.1057	BASE CASE
FDNS	01ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03231	125.8855	BASE CASE
FDNS	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	152.9834	BASE CASE
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07107	110.9292	WOODWARD DISTRICT EHV (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07062	120.9111	WOODWARD DISTRICT EHV (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07144	110.7418	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07099	121.5139	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0976	99.2	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09051	99.6	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01G11_019		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09087	107.5056	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09029	113.8144	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08803	134.8861	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08748	162.8941	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07645	129.7116	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07012	102.1586	WOODWARD - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06966	117.8071	WOODWARD - WOODWARD EHV 138KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09029	101.5153	WOODWARD - WOODWARD 69KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08803	122.2758	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08748	148.1824	WOODWARD - WOODWARD 69KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07819	114.9437	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07769	138.452	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07312	137.4108	WAKITA4 138.00 - WAKITA4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08035	105.8061	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0917	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0917	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08965	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08965	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08902	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08902	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0917	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0917	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08965	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08965	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08902	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08902	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08577	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08577	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08371	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08371	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08312	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08312	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08577	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08577	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08371	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08371	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08312	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08312	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01G11_019		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11812	104.1206	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11745	109.1143	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11557	122.6237	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11714	136.0238	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.1145	187.5888	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	103.9011	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08072	107.4491	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07984	153.3368	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	103.9206	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08072	107.4588	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07984	153.3616	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.7566	SHERBURNE CO 345/24.0KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.0653	SHERBURNE CO 345/24.0KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07603	102.2587	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07557	127.1085	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07814	116.3918	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07764	139.1198	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07979	136.5151	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07325	113.686	RENFROW4 138.00 - WAKITAS4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07287	139.4836	RENFROW4 138.00 - WAKITAS4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07325	114.6307	RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07287	140.7816	RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07949	106.8128	RANCHRD7 345.00 - SOONER 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08074	116.4237	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08074	116.4237	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07989	112.7063	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07989	112.7063	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07937	137.1349	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07937	137.1349	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	103.9178	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08072	107.4552	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07984	153.3577	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07312	121.6063	P12:138:WFEC:MSL15
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07065	128.0832	P12:138:WFEC:MSL14
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07121	113.1956	P12:138:WFEC:MSL12
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07887	107.1973	P12:138:OKGE:3TERM7
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07784	130.7929	P12:138:AEPW-OGE:WTH_JCT4:JENSEN4
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07723	128.6349	P12:138:AEPW-HOB-ICT4:ELKCTY-4
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07949	106.9166	OPENSKY7 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07949	106.8371	OPENSKY7 345.00 - RANCHRD7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08182	104.0696	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08182	104.0696	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	140.0743	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	140.0743	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07312	121.8064	NOEL_SW 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07133	109.2327	NOEL_SW 138.00 - ROSE_VALLEY 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07902	107.345	NEWKIRK4 - PECKHAM TAP 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07902	107.2156	NEWKIRK4 - NWKRKAT4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0814	135.1749	MOORELAND (MOORELND) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07749	127.236	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07133	106.9261	MOORELAND - ROSE_VALLEY 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07121	113.3386	MOORELAND - PIC4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07928	136.6145	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07928	136.6145	MINGO - SETAB 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07902	107.4125	MIDLNT4 138.00 - PECKHAM TAP 138KV CKT 1
FDNS	01G11_019		0 17G	G11_019	TO->FROM	ROMAN NOSE - SOUTHARD 138KV CKT 1	153	0.04562	101.4458	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	3		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11746	103.5816	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	ROMAN NOSE - SOUTHARD 138KV CKT 1	153	0.04613	105.7012	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11745	121.4783	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	1		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11802	133.4844	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11714	147.5545	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_019		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11812	154.4739	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11557	185.6107	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.1145	200.3572	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08371	105.4252	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08371	105.4252	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08182	112.3389	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08182	112.3389	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	152.4435	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	152.4435	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0785	106.8712	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.078	129.336	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0785	106.8443	KNOBHILL - NOEL_SW 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.078	129.3039	KNOBHILL - NOEL_SW 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07902	107.0979	KILDARE4 - NWKRKAT4 138.00 138KV CKT 1
FDNS	01G11_019		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09547	101.2149	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09482	113.3295	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09273	126.6412	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09207	161.2742	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07976	120.1023	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07918	138.3445	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07092	121.1821	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07908	136.5602	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07908	136.5602	HOLCOMB - SETAB 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08074	113.8301	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08074	113.8301	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08181	99	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08181	99	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07908	145.4404	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07908	145.4404	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	100.8427	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	100.8427	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07972	113.2848	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07972	113.2848	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07905	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07905	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07004	112.3032	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	104.2919	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	127.4007	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.7914	GEN659111 2-LELAND OLDS UNIT2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.397	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.613	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.397	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.613	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.0358	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.2632	GEN645012 2-NEBRASKA CITY 2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.3199	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.5633	GEN645001 1-FORT CALHOUN 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.7397	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.9842	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.831	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.0622	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.8116	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.0184	GEN640009 1-COOPER NUCLEAR STATION
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.4717	GEN635214 4-NEAL UNIT 4
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.8187	GEN635214 4-NEAL UNIT 4
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.313	GEN635213 3-NEAL UNIT 3
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	105.8055	GEN635024 4-WALTER SCOTT UNIT 4
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.1693	GEN635024 4-WALTER SCOTT UNIT 4
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.2948	GEN635023 3-WALTER SCOTT UNIT 3
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.6511	GEN635023 3-WALTER SCOTT UNIT 3
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.2829	GEN629075 1-OTTUMWA GENERATOR FOR OTTUMWA UNIT NO 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.6265	GEN629075 1-OTTUMWA GENERATOR FOR OTTUMWA UNIT NO 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.8977	GEN615001 1-COAL CREEK
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.2278	GEN615001 1-COAL CREEK
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.2956	GEN600005 1-MONTICELLO
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.6223	GEN600005 1-MONTICELLO
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.2899	GEN600002 3-SHERBURNE CNTY G3
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.6275	GEN600002 3-SHERBURNE CNTY G3
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.0819	GEN600001 2-SHERBURNE CNTY G2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.4056	GEN600001 2-SHERBURNE CNTY G2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.9401	GEN600000 1-SHERBURNECNTY G1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.2719	GEN600000 1-SHERBURNECNTY G1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	124.5284	GEN562042 1-G11_014_3 0.6900
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.249	GEN562026 1-G11_019_3 0.6900
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.249	GEN562023 1-G11_020_3 0.6900
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	122.4552	GEN562017 1-G11_022_3 0.6900
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	112.301	GEN560773 1-BUFFER-WTG1 0.6000
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.521	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.1373	GEN560585 1-G06-44-3 4.1600
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	126.9044	GEN560287 1-G10-01-2WTG 0.6900
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	126.9044	GEN560286 1-G10-01-1WTG 0.6900
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	126.4914	GEN560257 1-G10-14-2 0.6900
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	126.6636	GEN560256 1-G10-14-1 0.6900
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	101.6105	GEN560219 1-G07_062_8 0.6900
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	99.7	GEN560218 1-G07_062_7 0.6900
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	99.7	GEN560217 1-G07_062_6 0.6900
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	115.4029	GEN560183 1-REDHIL-WTG1 12.000
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	139.258	GEN560183 1-REDHIL-WTG1 12.000
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.0415	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.2394	GEN542962 2-IATAN UNIT #2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.372	GEN542957 1-IATAN UNIT #1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.5791	GEN542957 1-IATAN UNIT #1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.1979	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.3075	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.8387	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.1174	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.7836	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.9941	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.7832	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.9937	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.7665	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.9715	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	103.8521	GEN531447 1-HOLCOMB GENERATOR
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	126.5632	GEN531447 1-HOLCOMB GENERATOR
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.1878	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	128.4588	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.1534	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.9825	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.1534	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.9825	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.3026	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.2441	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.752	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.2143	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.989	GEN526332 1-JONES GEN #2 21 KV
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.3011	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	128.2001	GEN526331 1-JONES GEN #1 22 KV
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.2537	GEN525844 1-ELK_1 118.000
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.7073	GEN525844 1-ELK_1 118.000
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	122.4785	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	125.1283	GEN524295 1-SPNSPUR_WND10.6900
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	105.3598	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	127.1492	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	105.3607	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	127.154	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	105.3601	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	127.1494	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	03ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08117	99.8	GEN520998 1-MORLND3
FDNS	01G11_019		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08149	106.5182	GEN520998 1-MORLND3
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08096	112.4465	GEN520998 1-MORLND3
FDNS	03ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08117	99.8	GEN520997 1-MORLND2
FDNS	01G11_019		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08149	106.5282	GEN520997 1-MORLND2
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08096	112.4576	GEN520997 1-MORLND2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	125.3624	GEN520997 1-MORLND2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	151.4061	GEN520997 1-MORLND2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.986	GEN520947 1-HUGO1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.4098	GEN520947 1-HUGO1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	126.7117	GEN520922 1-SLEEPING BEAR
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	136.3477	GEN520922 1-SLEEPING BEAR
FDNS	01G11_019		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08149	101.9574	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	132.7458	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	137.2867	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.1104	GEN515632 1-SLINGW21 0.6900
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	99.7	GEN515611 1-NBUFFRG1 0.6900
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	123.055	GEN515591 1-PALDRW11 0.6900
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.9212	GEN515586 1-MMTHPW11 0.5750
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.8621	GEN515583 1-SLINGW11 0.6900
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.0734	GEN514540 1-CRSRDW21 0.6900
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.183	GEN514449 1-CRSRDW11 0.6900
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	101.1449	GEN515397 1-OU5PRT 1 0.6900
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.4076	GEN515393 1-OGWWD2G
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	117.0077	GEN515389 1-TLWWD-WTG1 0.7000
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.4058	GEN515365 1-CENT 21 0.7000
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.9258	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.6807	GEN515225 1-MUSKOGEE 5G
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.6807	GEN515223 1-MUSKOGEE 4G
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	113.3321	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	136.5426	GEN514806 1-SOONER UNIT 2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	115.2682	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	138.2469	GEN514805 1-SOONER UNIT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.7874	GEN511848 1-SOUTHWESTERN STATION #3
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.368	GEN511848 1-SOUTHWESTERN STATION #3
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.6272	GEN511843 1-RIVERSIDE STATION #2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	112.0431	GEN509416 1-TURK GENERATION
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.4432	GEN509416 1-TURK GENERATION
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.4537	GEN509406 1-WELSH #3
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.4535	GEN509404 1-WELSH #1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.8472	GEN509403 1-PIRKEY GENERATION
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.6674	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.2046	GEN501801 1-DOLET HILLS UNIT1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	112.2519	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.7798	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.8237	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.352	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	112.3164	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.7935	GEN336821 1-GRAND GULF UNIT
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.9177	GEN336153 1-WATERFORD UNIT#3
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.4386	GEN336153 1-WATERFORD UNIT#3
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.641	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.1631	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08167	111.6359	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08125	117.7449	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08167	111.6359	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08125	117.7449	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07976	122.1142	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07918	140.2688	FT SUPPLY - IODINE 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07937	111.4482	FLATRDG3 - HARPER 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07937	111.4482	FLATRDG3 - HARPER 138KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08349	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08349	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08141	113.251	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08141	113.251	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08349	104.0307	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08141	112.3302	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07523	104.0836	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07464	136.5005	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08072	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08072	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07984	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07984	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	113.0905	ELK CITY 230KV - SWEETWATER 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08072	115.4932	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07984	162.702	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07464	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07464	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07803	135.239	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	131.152	EAGLE CHIEF 69KV SWITCHED SHUNT
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07222	123.1752	DOVER SW - OKEENE 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08112	125.6184	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08065	138.9702	DEWEY - TALOGA 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07603	101.5909	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07557	126.4925	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01G11_019		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09547	99.6	DEWEY - IODINE 138KV CKT 1
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09482	111.9112	DEWEY - IODINE 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09273	124.9702	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09207	159.8702	DEWEY - IODINE 138KV CKT 1
FDNS	1		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12376	116.2179	DBL-THIS-WWR
FDNS	01NR		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12802	125.9454	DBL-THIS-WWR
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12295	135.3471	DBL-THIS-WWR
FDNS	01G11_019		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12379	138.9469	DBL-THIS-WWR
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12106	168.1653	DBL-THIS-WWR
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12009	192.1746	DBL-THIS-WWR
FDNS	3		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10138	102.5983	DBL-THIS-WIC
FDNS	1		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10174	102.7112	DBL-THIS-WIC
FDNS	01NR		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10893	110.6754	DBL-THIS-WIC
FDNS	01G11_019		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10179	120.0671	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10131	127.5528	DBL-THIS-WIC
FDNS	2		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10101	131.2197	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09911	148.3678	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09825	182.3514	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07931	131.6319	DBL-IRON-CLR
FDNS	01G11_019		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09831	105.1558	DBL-HTCH-BVR
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0959	132.8514	DBL-HTCH-BVR
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0959	122.2779	DBL-G1114-WW
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07931	130.7312	DBL-CLR-THI
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0959	124.386	DBL-BVR-G111
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07523	106.1063	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07464	138.4899	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07523	105.7841	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07464	138.1762	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07783	106.742	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07783	106.742	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0774	125.6421	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0774	125.6421	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07723	128.8975	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07723	128.6771	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07092	120.5826	CLEOPLT4 138.00 - MEN TAP 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07004	113.2652	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07092	119.8169	CLEO CORNER - CLEOPLT4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07889	106.9592	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07829	144.9738	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07889	106.6137	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07829	144.6442	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07121	113.6902	CEDARDALE - PIC4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07121	114.2248	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08193	112.0569	CARTER JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0814	136.1703	CARTER JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0814	135.1754	CARTER JCT - MOORELAND 69KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07832	131.0917	CARMEN - EAGLE CHIEF 69KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07351	100.2675	C_CITY 138 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07312	125.3065	C_CITY 138 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07351	105.414	BYRON 138 138.00 - SANDY_CN 138138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07312	128.6175	BYRON 138 138.00 - SANDY_CN 138138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07351	100.6447	BYRON 138 138.00 - C_CITY 138 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07312	125.5612	BYRON 138 138.00 - C_CITY 138 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07951	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07951	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07951	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07951	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07919	128.9344	BVRCNTY7 345.00 - G11-14T 345.00 345KV CKT 2
FDNS	02ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07919	128.9344	BVRCNTY7 345.00 - G11-14T 345.00 345KV CKT 1
FDNS	01ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08437	125.1454	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08412	138.8268	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08437	125.0217	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08437	125.0217	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08412	138.9576	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08412	138.9576	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.4182	BIG STONE 230/24.0KV TRANSFORMER CKT 1
FDNS	01ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07889	105.6437	BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	02ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07829	143.739	BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	01ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07889	105.0707	BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	02ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07829	143.1892	BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	02ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07065	129.4044	BEARCAT 138.00 - NINE MILE 138KV CKT 1
FDNS	02ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07065	127.9695	BEARCAT 138.00 - MOORELAND 138KV CKT 1
FDNS	2		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08096	103.1057	BASE CASE
FDNS	01ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	125.8855	BASE CASE
FDNS	02ALL		017G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	152.9834	BASE CASE
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07107	110.9292	WOODWARD DISTRICT EHV (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07062	120.9111	WOODWARD DISTRICT EHV (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07144	110.7418	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07099	121.5139	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01NR		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0976	99.2	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	03ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09051	99.6	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01G11_020		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09087	107.5056	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09029	113.8144	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08803	134.8861	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08748	162.8941	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07645	129.7116	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07012	102.1586	WOODWARD - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06966	117.8071	WOODWARD - WOODWARD EHV 138KV CKT 1
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09029	101.5153	WOODWARD - WOODWARD 69KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08803	122.2758	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08748	148.1824	WOODWARD - WOODWARD 69KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07819	114.9437	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07769	138.452	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07312	137.4108	WAKITA4 138.00 - WAKITA5 138.00 138KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08035	105.8061	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0917	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0917	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08965	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08965	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08902	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08902	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0917	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0917	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08965	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08965	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08902	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08902	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08577	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08577	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08371	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08371	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08312	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08312	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08577	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08577	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08371	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08371	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08312	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08312	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01G11_020		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11812	104.1206	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	03ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11745	109.1143	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11557	122.6237	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11714	136.0238	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.1145	187.5888	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	103.9011	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08072	107.4491	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07984	153.3368	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	103.9206	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08072	107.4588	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07984	153.3616	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.7566	SHERBURNE CO 345/24.0KV TRANSFORMER CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.0653	SHERBURNE CO 345/24.0KV TRANSFORMER CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07603	102.2587	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07557	127.1085	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07814	116.3918	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07764	139.1198	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07979	136.5151	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07325	113.686	RENFROW4 138.00 - WAKITAS4 138.00 138KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07287	139.4836	RENFROW4 138.00 - WAKITAS4 138.00 138KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07325	114.6307	RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07287	140.7816	RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07949	106.8128	RANCHRD7 345.00 - SOONER 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08074	116.4237	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08074	116.4237	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07989	112.7063	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07989	112.7063	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07937	137.1349	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	103.9178	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08072	107.4552	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07984	153.3577	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07312	121.6063	P12:138:WFEC:MSL15
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07065	128.0832	P12:138:WFEC:MSL12
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07121	113.1956	P12:138:WFEC:MSL12
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07887	107.1973	P12:138:OKGE:3TERM7
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07784	130.7929	P12:138:AEPW-OGE:WTH_JCT4:JENSEN4
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07723	128.6349	P12:138:AEPW-HOB-JCT4:ELKCTY-4
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07949	106.9166	OPENSKY7 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07949	106.8371	OPENSKY7 345.00 - RANCHRD7 345.00 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08182	104.0696	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08182	104.0696	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	140.0743	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	140.0743	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07312	121.8064	NOEL_SW 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07133	109.2327	NOEL_SW 138.00 - ROSE_VALLEY 138.00 138KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07902	107.345	NEWKIRK4 - PECKHAM TAP 138KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07902	107.2156	NEWKIRK4 - NWKRKAT4 138.00 138KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0814	135.1749	MOORELAND (MOORELND) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07749	127.236	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07133	106.9261	MOORELAND - ROSE_VALLEY 138.00 138KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07121	113.3386	MOORELAND - PIC4 138.00 138KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07928	136.6145	MINGO - SETAB 345KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07928	136.6145	MINGO - SETAB 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07902	107.4125	MIDLNT4 138.00 - PECKHAM TAP 138KV CKT 1
FDNS	01G11_020		017G	G11_020	TO->FROM	ROMAN NOSE - SOUTHARD 138KV CKT 1	153	0.04562	101.4458	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	3		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11746	103.5816	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	ROMAN NOSE - SOUTHARD 138KV CKT 1	153	0.04613	105.7012	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11745	121.4783	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	1		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11802	133.4844	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11714	147.5545	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01G11_020		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11812	154.4739	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11557	185.6107	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.1145	200.3572	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08371	105.4252	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08371	105.4252	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08182	112.3389	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08182	112.3389	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	152.4435	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08097	152.4435	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		017G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0785	106.8712	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.078	129.336	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0785	106.8443	KNOBHILL - NOEL_SW 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.078	129.3039	KNOBHILL - NOEL_SW 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07902	107.0979	KILDARE4 - NWRKAT4 138.00 138KV CKT 1
FDNS	01G11_020		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09547	101.2149	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09482	113.3295	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09273	126.6412	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09207	161.2742	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07976	120.1023	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07918	138.3445	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07092	121.1821	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07908	136.5602	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07908	136.5602	HOLCOMB - SETAB 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08074	113.8301	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08074	113.8301	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08181	99	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08181	99	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07908	145.4404	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07908	145.4404	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	100.8427	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08177	100.8427	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07972	113.2848	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07972	113.2848	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07905	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07905	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07004	112.3032	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	104.2919	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	127.4007	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.7914	GEN659111 2-LELAND OLDS UNIT2
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.397	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.613	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.397	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.613	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.0358	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.2632	GEN645012 2-NEBRASKA CITY 2
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.3199	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.5633	GEN645001 1-FORT CALHOUN 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.7397	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.9842	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.831	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.0622	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.8116	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.0184	GEN640009 1-COOPER NUCLEAR STATION
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.4717	GEN635214 4-NEAL UNIT 4
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.8187	GEN635214 4-NEAL UNIT 4
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.313	GEN635213 3-NEAL UNIT 3
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	105.8055	GEN635024 4-WALTER SCOTT UNIT 4
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.1693	GEN635024 4-WALTER SCOTT UNIT 4
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.2948	GEN635023 3-WALTER SCOTT UNIT 3
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.6511	GEN635023 3-WALTER SCOTT UNIT 3
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.2829	GEN629075 1-OTTUMWA GENERATOR FOR OTTUMWA UNIT NO 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.6265	GEN629075 1-OTTUMWA GENERATOR FOR OTTUMWA UNIT NO 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.8977	GEN615001 1-COAL CREEK
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.2278	GEN615001 1-COAL CREEK
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.2956	GEN600005 1-MONTICELLO
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.6223	GEN600005 1-MONTICELLO
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.2899	GEN600002 3-SHERBURNE CNTY G3
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.6275	GEN600002 3-SHERBURNE CNTY G3
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.0819	GEN600001 2-SHERBURNE CNTY G2
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.4056	GEN600001 2-SHERBURNE CNTY G2
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.9401	GEN600000 1-SHERBURNECNTY G1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.2719	GEN600000 1-SHERBURNECNTY G1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	124.5284	GEN562042 1-G11_014_3 0.6900
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.249	GEN562026 1-G11_019_3 0.6900
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.249	GEN562023 1-G11_020_3 0.6900
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	122.4552	GEN562017 1-G11_022_3 0.6900
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	112.301	GEN560773 1-BUFFER-WTG1 0.6000

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.521	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.1373	GEN560585 1-G06-44-3 4.1600
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	126.9044	GEN560287 1-G10-01-2WTG 0.6900
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	126.9044	GEN560286 1-G10-01-1WTG 0.6900
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	126.4914	GEN560257 1-G10-14-2 0.6900
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	126.6636	GEN560256 1-G10-14-1 0.6900
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	101.6105	GEN560219 1-G07_062_8 0.6900
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	99.7	GEN560218 1-G07_062_7 0.6900
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	99.7	GEN560217 1-G07_062_6 0.6900
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	115.4029	GEN560183 1-REDHIL-WTG1 12.000
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	139.258	GEN560183 1-REDHIL-WTG1 12.000
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.0415	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.2394	GEN542962 2-IATAN UNIT #2
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.372	GEN542957 1-IATAN UNIT #1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.5791	GEN542957 1-IATAN UNIT #1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.1979	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.3075	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.8387	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.1174	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.7836	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.9941	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.7832	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.9937	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.7665	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.9715	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	103.8521	GEN531447 1-HOLCOMB GENERATOR
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	126.5632	GEN531447 1-HOLCOMB GENERATOR
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.1878	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	128.4588	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.1534	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.9825	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.1534	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.9825	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.3026	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.2441	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.752	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.2143	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.989	GEN526332 1-JONES GEN #2 21 KV
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.3011	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	128.2001	GEN526331 1-JONES GEN #1 22 KV
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.2537	GEN525844 1-ELK_1 118.000
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	129.7073	GEN525844 1-ELK_1 118.000
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	122.4785	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	125.1283	GEN524295 1-SPNSPUR_WND10.6900
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	105.3598	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	127.1492	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	105.3607	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	127.154	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	105.3601	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	127.1494	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	03ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08117	99.8	GEN520998 1-MORLND3
FDNS	01G11_020		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08149	106.5182	GEN520998 1-MORLND3
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08096	112.4465	GEN520998 1-MORLND3
FDNS	03ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08117	99.8	GEN520997 1-MORLND2
FDNS	01G11_020		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08149	106.5282	GEN520997 1-MORLND2
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08096	112.4576	GEN520997 1-MORLND2
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	125.3624	GEN520997 1-MORLND2
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	151.4061	GEN520997 1-MORLND2
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.986	GEN520947 1-HUGO1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.4098	GEN520947 1-HUGO1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	126.7117	GEN520922 1-SLEEPING BEAR
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	136.3477	GEN520922 1-SLEEPING BEAR
FDNS	01G11_020		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08149	101.9574	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	132.7458	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	137.2867	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.1104	GEN515632 1-SLINGW21 0.6900
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	99.7	GEN515611 1-NBUFFRG1 0.6900

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	123.055	GEN515591 1-PALDRW11 0.6900
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.9212	GEN515586 1-MMTHPW11 0.5750
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	106.8621	GEN515583 1-SLINGW11 0.6900
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.0734	GEN515450 1-CRSRDW21 0.6900
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.183	GEN515449 1-CRSRDW11 0.6900
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	101.1449	GEN515397 1-OUSPRT 1 0.6900
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.4076	GEN515393 1-OGEWWD2G
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	117.0077	GEN515389 1-TLGWWD-WTG1 0.7000
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	130.4058	GEN515365 1-CENT 21 0.7000
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.9258	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.6807	GEN515225 1-MUSKOGEE 5G
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.6807	GEN515223 1-MUSKOGEE 4G
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	113.3321	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	136.5426	GEN514806 1-SOONER UNIT 2
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	115.2682	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	138.2469	GEN514805 1-SOONER UNIT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.7874	GEN511848 1-SOUTHWESTERN STATION #3
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.368	GEN511848 1-SOUTHWESTERN STATION #3
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.6272	GEN511843 1-RIVERSIDE STATION #2
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	112.0431	GEN509416 1-TURK GENERATION
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.4432	GEN509416 1-TURK GENERATION
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.4537	GEN509406 1-WELSH #3
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.4535	GEN509404 1-WELSH #1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.8472	GEN509403 1-PIRKEY GENERATION
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.6674	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.2046	GEN501801 1-DOLET HILLS UNIT1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	112.2519	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.7798	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.8237	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.352	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	112.3164	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.7935	GEN336821 1-GRAND GULF UNIT
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.9177	GEN336153 1-WATERFORD UNIT#3
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.4386	GEN336153 1-WATERFORD UNIT#3
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	111.641	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	135.1631	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08167	111.6359	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08125	117.7449	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08167	111.6359	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08125	117.7449	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07976	122.1142	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07918	140.2688	FT SUPPLY - IODINE 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07937	111.4482	FLATRDG3 - HARPER 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07937	111.4482	FLATRDG3 - HARPER 138KV CKT 1
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08349	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08349	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08141	113.251	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08141	113.251	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08349	104.0307	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08141	112.3302	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07523	104.0836	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07464	136.5005	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08072	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08072	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07984	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07984	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08268	113.0905	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08072	115.4932	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07984	162.702	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07464	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07464	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07803	135.239	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	131.152	EAGLE CHIEF 69KV SWITCHED SHUNT
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07222	123.1752	DOVER SW - OKEENE 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08112	125.6184	DEWEY - TALOGA 138KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08065	138.9702	DEWEY - TALOGA 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07603	101.5909	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07557	126.4925	DEWEY - SOUTHARD 138KV CKT 1
FDNS	01G11_020		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09547	99.6	DEWEY - IODINE 138KV CKT 1
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09482	111.9112	DEWEY - IODINE 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09273	124.9702	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09207	159.8702	DEWEY - IODINE 138KV CKT 1
FDNS	1		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12376	116.2179	DBL-THIS-WWR
FDNS	01NR		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12802	125.9454	DBL-THIS-WWR
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12295	135.3471	DBL-THIS-WWR
FDNS	01G11_020		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12379	138.9469	DBL-THIS-WWR
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12106	168.1653	DBL-THIS-WWR
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12009	192.1746	DBL-THIS-WWR
FDNS	3		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10138	102.5983	DBL-THIS-WIC
FDNS	1		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10174	102.7112	DBL-THIS-WIC
FDNS	01NR		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10893	110.6754	DBL-THIS-WIC
FDNS	01G11_020		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10179	120.0671	DBL-THIS-WIC
FDNS	03ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10131	127.5528	DBL-THIS-WIC
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.10101	131.2197	DBL-THIS-WIC
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09911	148.3678	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09825	182.3514	DBL-THIS-WIC
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07931	131.6319	DBL-IRON-CLR
FDNS	01G11_020		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09831	105.1558	DBL-HTCH-BVR
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0959	132.8514	DBL-HTCH-BVR
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0959	122.2779	DBL-G1114-WW
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07931	130.7312	DBL-CLR-THI
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0959	124.386	DBL-BVR-G111
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07523	106.1063	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07464	138.4899	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07523	105.7841	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07464	138.1762	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07783	106.742	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07783	106.742	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0774	125.6421	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0774	125.6421	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07723	128.8975	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07723	128.6771	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07092	120.5826	CLEOPLT4 138.00 - MEN TAP 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07004	113.2652	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07092	119.8169	CLEO CORNER - CLEOPLT4 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07889	106.9592	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07829	144.9738	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07889	106.6137	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07829	144.6442	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07121	113.6902	CEDARDALE - PIC4 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07121	114.2248	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08193	112.0569	CARTER JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0814	136.1703	CARTER JCT - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0814	135.1754	CARTER JCT - MOORELAND 69KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07832	131.0917	CARMEN - EAGLE CHIEF 69KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07351	100.2675	C_CITY_138 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07312	125.3065	C_CITY_138 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07351	105.414	BYRON_138 138.00 - SANDY_CN_138138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07312	128.6175	BYRON_138 138.00 - SANDY_CN_138138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07351	100.6447	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07312	125.5612	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07951	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07951	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07951	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07951	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07919	128.9344	BVRCNTY7 345.00 - G11-14T 345.00 345KV CKT 2
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07919	128.9344	BVRCNTY7 345.00 - G11-14T 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08437	125.1454	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08412	138.8268	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08437	125.0217	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08437	125.0217	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08412	138.9576	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE@ MVA	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08412	138.9576	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	107.4182	BIG STONE 230/24.0KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07889	105.6437	BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07829	143.739	BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07889	105.0707	BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07829	143.1892	BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07065	129.4044	BEARCAT 138.00 - NINE MILE 138KV CKT 1
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07065	127.9695	BEARCAT 138.00 - MOORELAND 138KV CKT 1
FDNS	2		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08096	103.1057	BASE CASE
FDNS	01ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07885	125.8855	BASE CASE
FDNS	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	152.9834	BASE CASE
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04339	110.9292	WOODWARD DISTRICT EHV (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04294	120.9111	WOODWARD DISTRICT EHV (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04362	110.7418	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04316	121.5139	WOODWARD DISTRICT EHV (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	03ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05486	99.6	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05465	113.8144	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05438	127.4288	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05238	134.8861	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05183	162.8941	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04652	129.7116	WOODWARD - WOODWARD EHV 138KV CKT 2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04303	102.1586	WOODWARD - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04257	117.8071	WOODWARD - WOODWARD EHV 138KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05465	101.5153	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05438	112.587	WOODWARD - WOODWARD 69KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05238	122.2758	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05183	148.1824	WOODWARD - WOODWARD 69KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0495	106.6538	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0476	114.9437	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04711	138.452	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04567	104.056	WAKITA4 138.00 - WAKITA5 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04318	137.4108	WAKITA4 138.00 - WAKITA5 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04992	105.8061	VIOLA 7 345.00 - WICHITA 345KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0567	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0567	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05639	114.2877	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05639	114.2877	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05465	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05465	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0567	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0567	100.8944	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05639	114.2877	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05639	114.2877	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05465	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05465	124.5233	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05402	147.0405	THISTLE7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05449	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05449	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0542	112.1301	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0542	112.1301	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05243	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05243	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05184	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05184	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 2
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05449	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05449	99.5	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0542	112.1301	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0542	112.1301	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05243	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05243	118.6207	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05184	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05184	143.9972	THISTLE7 345.00 - WICHITA 345KV CKT 1
FDNS	03ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07746	109.1143	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07558	122.6237	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	2	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07715	136.0238	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07673	149.3329	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07451	187.5888	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	2	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05791	103.9011	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05596	107.4491	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0575	118.2897	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05507	153.3368	STLN-DEMARC6 - SWEETWATER 230KV CKT 1
FDNS	2	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05791	103.9206	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05596	107.4588	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0575	118.3131	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05507	153.3616	STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.7566	SHERBURNE CO 345/24.0KV TRANSFORMER CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.0653	SHERBURNE CO 345/24.0KV TRANSFORMER CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04567	104.7014	SANDY_CN 138138.00 - WAKITA4 138.00 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04597	102.2587	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04551	127.1085	ROMAN NOSE - SOUTHARD 138KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04953	108.5696	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	116.3918	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04713	139.1198	RENFROW7 345.00 (BANK 1) 345/138/13.8KV TRANSFORMER CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05168	105.1154	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04935	136.5151	RENFROW7 345.00 - VIOLA 7 345.00 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04549	106.5631	RENFROW4 138.00 - WAKITASA 138.00 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04337	113.686	RENFROW4 138.00 - WAKITASA 138.00 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04298	139.4836	RENFROW4 138.00 - WAKITASA 138.00 138KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04549	107.785	RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04337	114.6307	RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04298	140.7816	RENFROW4 138.00 - RENFROW4 138.00 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04886	106.8128	RANCHRD7 345.00 - SOONER 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0548	111.2654	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0548	111.2654	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05281	116.4237	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05281	116.4237	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0512	105.7423	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0512	105.7423	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04936	112.7063	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04936	112.7063	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04883	137.1349	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04883	137.1349	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	2	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05791	103.9178	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05596	107.4552	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0575	118.3102	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05507	153.3577	P12:230:AEPW-SPS:SWEETWT6:WHEELER 6
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04318	121.6063	P12:138:WFEC:MSL15
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0464	128.0832	P12:138:WFEC:MSL14
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04155	113.1956	P12:138:WFEC:MSL12
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04818	107.1973	P12:138:OKGE:3TERM7
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04687	130.7929	P12:138:AEPW-OG:WTH_JCT4:JENSEN4
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0459	128.6349	P12:138:AEPW:HOB-JCT4:ELKCTY-4
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04886	106.9166	OPENSKY7 345.00 - ROSE HILL 345KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04886	106.8371	OPENSKY7 345.00 - RANCHRD7 345.00 345KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05321	104.0696	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05321	104.0696	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05473	107.0966	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05473	107.0966	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05236	140.0743	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05236	140.0743	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04318	121.8064	NOEL_SW 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04185	109.2327	NOEL_SW 138.00 - ROSE_VALLEY 138.00 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04833	107.345	NEWKIRK4 - PECKHAM TAP 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04833	107.2156	NEWKIRK4 - NWKRKAT4 138.00 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	135.1749	MOORELAND (MOORELND) 138/69/13.8KV TRANSFORMER CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04598	127.236	MOORELAND - TALOGA 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04185	106.9261	MOORELAND - ROSE_VALLEY 138.00 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04155	113.3386	MOORELAND - PIC4 138.00 138KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05168	105.2322	MINGO - SETAB 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05168	105.2322	MINGO - SETAB 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04931	136.6145	MINGO - SETAB 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04931	136.6145	MINGO - SETAB 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04833	107.4125	MIDLINT4 138.00 - PECKHAM TAP 138KV CKT 1
FDNS	3		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07748	103.5816	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	ROMAN NOSE - SOUTHARD 138KV CKT 1	153	0.03507	105.7012	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	03ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07746	121.4783	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	1		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07804	133.4844	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07715	147.5545	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07673	163.7136	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07558	185.6107	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07451	200.3572	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05511	105.4252	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05511	105.4252	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05321	112.3389	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05321	112.3389	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05473	118.5355	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05473	118.5355	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05236	152.4435	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05236	152.4435	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04789	106.8712	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04739	129.336	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04789	106.8443	KNOBHILL - NOEL_SW 138.00 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04739	129.3039	KNOBHILL - NOEL_SW 138.00 138KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04833	107.0979	KILDARE4 - NWKRKAT4 138.00 138KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05962	113.3295	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05753	126.6412	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05932	126.7071	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05688	161.2742	IODINE - WOODWARD EHV 138KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05438	104.5067	IODINE - MOORELAND 138KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05246	120.1023	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05189	138.3445	IODINE - MOORELAND 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04122	121.1821	IMO TAP - MEN TAP 138KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05135	105.3508	HOLCOMB - SETAB 345KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05135	105.3508	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04898	136.5602	HOLCOMB - SETAB 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04898	136.5602	HOLCOMB - SETAB 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05281	113.8301	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05281	113.8301	Hitchland Interchange - POTTER COUNTY INTERCHANGE 345KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05399	99	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05399	99	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05366	112.0389	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05366	112.0389	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05127	145.4404	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05127	145.4404	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05355	100.8427	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05355	100.8427	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05151	113.2848	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05151	113.2848	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05323	113.9299	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05323	113.9299	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05084	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05084	146.6814	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04055	112.3032	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	104.2919	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	127.4007	GEN659118 1-LARAMIE RIVER UNIT1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	99.1	GEN659111 2-LELAND OLDS UNIT2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.7914	GEN659111 2-LELAND OLDS UNIT2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.397	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.613	GEN659107 2-ANTELOPE VALLEY UNIT2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.397	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.613	GEN659103 1-ANTELOPE VALLEY UNIT1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.0358	GEN645012 2-NEBRASKA CITY 2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.2632	GEN645012 2-NEBRASKA CITY 2
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	99	GEN645011 1-NEBRASKA CITY 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.3199	GEN645001 1-FORT CALHOUN 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.5633	GEN645001 1-FORT CALHOUN 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.7397	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.9842	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.831	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.0622	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.8116	GEN640009 1-COOPER NUCLEAR STATION
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.0184	GEN640009 1-COOPER NUCLEAR STATION
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.4717	GEN635214 4-NEAL UNIT 4
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.8187	GEN635214 4-NEAL UNIT 4
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	99	GEN635213 3-NEAL UNIT 3
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.313	GEN635213 3-NEAL UNIT 3
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	105.8055	GEN635024 4-WALTER SCOTT UNIT 4
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.1693	GEN635024 4-WALTER SCOTT UNIT 4
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.2948	GEN635023 3-WALTER SCOTT UNIT 3
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.6511	GEN635023 3-WALTER SCOTT UNIT 3
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	99	GEN629075 1-OTTUMWA GENERATOR FOR OTTUMWA UNIT NO 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.2829	GEN629075 1-OTTUMWA GENERATOR FOR OTTUMWA UNIT NO 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.6265	GEN629075 1-OTTUMWA GENERATOR FOR OTTUMWA UNIT NO 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.8977	GEN615001 1-COAL CREEK
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.2278	GEN615001 1-COAL CREEK
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.2956	GEN600005 1-MONTICELLO
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.6223	GEN600005 1-MONTICELLO
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.2899	GEN600002 3-SHERBURNE CNTY G3
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.6275	GEN600002 3-SHERBURNE CNTY G3
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.0819	GEN600001 2-SHERBURNE CNTY G2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.4056	GEN600001 2-SHERBURNE CNTY G2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.9401	GEN600000 1-SHERBURNECNTY G1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.2719	GEN600000 1-SHERBURNECNTY G1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	124.5284	GEN562042 1-G11_014_3 0.6900
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.249	GEN562026 1-G11_019_3 0.6900
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.249	GEN562023 1-G11_020_3 0.6900
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	122.4552	GEN562017 1-G11_022_3 0.6900
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	112.301	GEN560773 1-BUFBER-WTG1 0.6000
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.521	GEN560586 1-G06-44-4 4.1600
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.1373	GEN560585 1-G06-44-3 4.1600
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	126.9044	GEN560287 1-G10-01-2WTG 0.6900
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	126.9044	GEN560286 1-G10-01-1WTG 0.6900
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	126.4914	GEN560257 1-G10-14-2 0.6900
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	126.6636	GEN560256 1-G10-14-1 0.6900
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	101.6105	GEN560219 1-G07_062_8 0.6900
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	99.7	GEN560218 1-G07_062_7 0.6900
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	99.7	GEN560217 1-G07_062_6 0.6900
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	106.9903	GEN560183 1-REDHIL-WTG1 12.000
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	115.4029	GEN560183 1-REDHIL-WTG1 12.000
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	139.258	GEN560183 1-REDHIL-WTG1 12.000
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.0415	GEN542962 2-IATAN UNIT #2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.2394	GEN542962 2-IATAN UNIT #2
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	99	GEN542957 1-IATAN UNIT #1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.372	GEN542957 1-IATAN UNIT #1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.5791	GEN542957 1-IATAN UNIT #1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.1979	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.3075	GEN539670 4-JUDSON LARGE GENERATOR
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.8387	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.1174	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.7836	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.9941	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.7832	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.9937	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.7665	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.9715	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	103.8521	GEN531447 1-HOLCOMB GENERATOR
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	126.5632	GEN531447 1-HOLCOMB GENERATOR
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.1878	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	128.4588	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.1534	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.9825	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.1534	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.9825	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.3026	GEN527882 1-CUNNINGHAM GEN #2 20 KV
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.2441	GEN527163 1-MUSTANG GEN #3 22 KV

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.752	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.2143	GEN526332 1-JONES GEN #2 21 KV
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.989	GEN526332 1-JONES GEN #2 21 KV
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.3011	GEN526331 1-JONES GEN #1 22 KV
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	128.2001	GEN526331 1-JONES GEN #1 22 KV
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.2537	GEN525844 1-ELK 1 118.000
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	129.7073	GEN525844 1-ELK 1 118.000
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	122.4785	GEN525561 1-TOLK GEN #1 24 KV
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	125.1283	GEN524295 1-SPNSPUR WND10.6900
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	105.3598	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	127.1492	GEN523973 1-HARRINGTON GEN #3 24 KV
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	105.3607	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	127.154	GEN523972 1-HARRINGTON GEN #2 24 KV
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	105.3601	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	127.1494	GEN523971 1-HARRINGTON GEN #1 24 KV
FDNS	03ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05045	99.8	GEN520998 1-MORLND3
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05024	112.4465	GEN520998 1-MORLND3
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	121.925	GEN520998 1-MORLND3
FDNS	03ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05045	99.8	GEN520997 1-MORLND2
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05024	112.4576	GEN520997 1-MORLND2
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	121.9312	GEN520997 1-MORLND2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	125.3624	GEN520997 1-MORLND2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	151.4061	GEN520997 1-MORLND2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	111.986	GEN520947 1-HUGO1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	135.4098	GEN520947 1-HUGO1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	104.5234	GEN520922 1-SLEEPING BEAR
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	126.7117	GEN520922 1-SLEEPING BEAR
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	136.3477	GEN520922 1-SLEEPING BEAR
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	105.5769	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	132.7458	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	137.2867	GEN515787 1-OKLA WIND ENERGY CENTER
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.1104	GEN515632 1-SLINGW21 0.6900
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	99.7	GEN515611 1-NBUFFRG1 0.6900
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	123.055	GEN515591 1-PALDRW11 0.6900
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.9212	GEN515586 1-MMTHPW11 0.5750
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	106.8621	GEN515583 1-SLINGW11 0.6900
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.0734	GEN515450 1-CRSRDW21 0.6900
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.183	GEN515449 1-CRSRDW11 0.6900
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	101.1449	GEN515397 1-OUSPRT 1 0.6900
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	99	GEN515393 1-OGEWND2G
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.4076	GEN515393 1-OGEWND2G
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	117.0077	GEN515389 1-TLGWND-WTG1 0.7000
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	99.1	GEN515365 1-CENT 21 0.7000
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	130.4058	GEN515365 1-CENT 21 0.7000
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	103.5697	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	111.9258	GEN515226 1-MUSKOGEE 6G
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	111.6807	GEN515225 1-MUSKOGEE 5G
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	111.6807	GEN515223 1-MUSKOGEE 4G
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	104.9969	GEN514806 1-SOONER UNIT 2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	113.3321	GEN514806 1-SOONER UNIT 2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	136.5426	GEN514806 1-SOONER UNIT 2
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	106.8305	GEN514805 1-SOONER UNIT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	115.2682	GEN514805 1-SOONER UNIT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	138.2469	GEN514805 1-SOONER UNIT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	103.4889	GEN511848 1-SOUTHWESTERN STATION #3
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	111.7874	GEN511848 1-SOUTHWESTERN STATION #3
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	135.368	GEN511848 1-SOUTHWESTERN STATION #3
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	103.4348	GEN511843 1-RIVERSIDE STATION #2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	111.6272	GEN511843 1-RIVERSIDE STATION #2
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	103.7765	GEN509416 1-TURK GENERATION
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	112.0431	GEN509416 1-TURK GENERATION
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	135.4432	GEN509416 1-TURK GENERATION
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	111.4537	GEN509406 1-WELSH #3
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	111.4535	GEN509404 1-WELSH #1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	103.5576	GEN509403 1-PIRKEY GENERATION
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	111.8472	GEN509403 1-PIRKEY GENERATION
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	103.564	GEN501801 1-DOLET HILLS UNIT1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE@ MVA	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	111.6674	GEN501801 1-DOLET HILLS UNIT1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	135.2046	GEN501801 1-DOLET HILLS UNIT1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	104.2351	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	112.2519	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	135.7798	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	103.7685	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	111.8237	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	135.352	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	104.2974	GEN336821 1-GRAND GULF UNIT
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	112.3164	GEN336821 1-GRAND GULF UNIT
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	135.7935	GEN336821 1-GRAND GULF UNIT
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	103.8571	GEN336153 1-WATERFORD UNIT#3
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	111.9177	GEN336153 1-WATERFORD UNIT#3
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	135.4386	GEN336153 1-WATERFORD UNIT#3
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	103.5572	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	111.641	GEN335831 1-RIVERBEND UNIT#1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	135.1631	GEN335831 1-RIVERBEND UNIT#1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04011	111.6359	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03969	117.7449	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04011	111.6359	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03969	117.7449	G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05438	106.3907	FT SUPPLY - IODINE 138KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05246	122.1142	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05189	140.2688	FT SUPPLY - IODINE 138KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05046	103.5857	FLATRDG3 - HARPER 138KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05046	103.5857	FLATRDG3 - HARPER 138KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04862	111.4482	FLATRDG3 - HARPER 138KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04862	111.4482	FLATRDG3 - HARPER 138KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05797	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05797	105.5606	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05588	113.251	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05588	113.251	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05766	115.4792	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05766	115.4792	FINNEY SWITCHING STATION - HOLCOMB 345KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05797	104.0307	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05588	112.3302	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05766	114.2365	FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04762	104.0836	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04704	136.5005	ELLIS 4 138.00 - MOREWOOD SW 138KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05791	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05791	113.0883	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05596	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05596	115.4903	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0575	127.3481	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0575	127.3481	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05507	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05507	162.7104	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05791	113.0905	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05596	115.4932	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0575	127.3525	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05507	162.702	ELK CITY 230KV - SWEETWATER 230KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04704	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04704	124.7284	ELK CITY - RED HILLS WIND 138KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04995	103.2666	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04758	135.239	ELK CITY - FALCON ROAD 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	131.152	EAGLE CHIEF 69KV SWITCHED SHUNT
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04234	123.1752	DOVER SW - OKEENE 138KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05072	103.8396	DEWEY - TALOGA 138KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04852	125.6184	DEWEY - TALOGA 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04806	138.9702	DEWEY - TALOGA 138KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04597	101.5909	DEWEY - SOUTHARD 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04551	126.4925	DEWEY - SOUTHARD 138KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05962	111.9112	DEWEY - IODINE 138KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05753	124.9702	DEWEY - IODINE 138KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05932	125.3387	DEWEY - IODINE 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05688	159.8702	DEWEY - IODINE 138KV CKT 1
FDNS	1		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0763	116.2179	DBL-THIS-WWR

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	2	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0755	135.3471	DBL-THIS-WWR
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.075	152.518	DBL-THIS-WWR
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0736	168.1653	DBL-THIS-WWR
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07263	192.1746	DBL-THIS-WWR
FDNS	3	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06834	102.5983	DBL-THIS-WIC
FDNS	1	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06871	102.7112	DBL-THIS-WIC
FDNS	03ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06827	127.5528	DBL-THIS-WIC
FDNS	2	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06797	131.2197	DBL-THIS-WIC
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06757	146.6221	DBL-THIS-WIC
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06607	148.3678	DBL-THIS-WIC
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.06522	182.3514	DBL-THIS-WIC
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04709	131.6319	DBL-IRON-CLR
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04709	130.7312	DBL-CLRK-THI
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04956	104.9178	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04762	106.1063	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04704	138.4899	CUSTER4 138.00 - RED HILLS WIND 138KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04956	104.5569	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04762	105.7841	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04704	138.1762	CUSTER4 138.00 - ELLIS 4 138.00 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04616	106.742	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04616	106.742	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04573	125.6421	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04573	125.6421	CLINTON JUNCTION - ELK CITY 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0459	128.8975	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0459	128.6771	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04122	120.5826	CLEOPLT4 138.00 - MEN TAP 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04055	113.2652	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04122	119.8169	CLEO CORNER - CLEOPLT4 138.00 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05343	106.9592	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05526	110.1997	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05283	144.9738	CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05343	106.6137	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05526	109.8454	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05283	144.6442	CLEARLAKE - SPEERMORE 69KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04155	113.6902	CEDARDALE - PIC4 138.00 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04155	114.2248	CEDARDALE - OKEENE 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05052	112.0569	CARTER JCT - WOODWARD 69KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	136.1703	CARTER JCT - WOODWARD 69KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	135.1754	CARTER JCT - MOORELAND 69KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04759	131.0917	CARMEN - EAGLE CHIEF 69KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04357	100.2675	C_CITY_138 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04318	125.3065	C_CITY_138 138.00 - SALT_PLAINS 138.00 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04357	105.414	BYRON_138 138.00 - SANDY_CN_138138.00 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04318	128.6175	BYRON_138 138.00 - SANDY_CN_138138.00 138KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04357	100.6447	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04318	125.5612	BYRON_138 138.00 - C_CITY_138 138.00 138KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04444	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04444	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 2
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04444	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04444	130.2199	BVRCNTY7 345.00 - Hitchland Interchange 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04534	128.9344	BVRCNTY7 345.00 - G11-14T 345.00 345KV CKT 2
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04534	128.9344	BVRCNTY7 345.00 - G11-14T 345.00 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0509	105.1774	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0509	105.1774	BUCKNER7 345.00 - SPEARVILLE 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05111	109.1692	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04905	125.1454	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0488	138.8268	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05111	109.1271	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05111	109.1271	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04905	125.0217	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04905	125.0217	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0488	138.9576	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0488	138.9576	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	99	BIG STONE 230/24.0KV TRANSFORMER CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	107.4182	BIG STONE 230/24.0KV TRANSFORMER CKT 1
FDNS	01ALL	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05343	105.6437	BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	02G11_022	0	17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05526	108.8154	BEAVER JCT - SPEERMORE 69KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05283	143.739	BEAVER JCT - SPEERMORE 69KV CKT 1
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05343	105.0707	BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05526	108.2346	BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05283	143.1892	BEAVER JCT - FT SUPPLY 69KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0464	129.4044	BEARCAT 138.00 - NINE MILE 138KV CKT 1
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0464	127.9695	BEARCAT 138.00 - MOORELAND 138KV CKT 1
FDNS	2		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05024	103.1057	BASE CASE
FDNS	02G11_022		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04999	116.3876	BASE CASE
FDNS	01ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04813	125.8855	BASE CASE
FDNS	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	152.9834	BASE CASE
FDNSLock	02ALL		0 17G	G11_008	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.03338	131.1536	EAGLE CHIEF 69KV SWITCHED SHUNT
FDNSLock	02ALL		0 17G	G11_014	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.05929	131.1536	EAGLE CHIEF 69KV SWITCHED SHUNT
FDNSLock	02ALL		0 17G	G11_016	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.0318	131.1536	EAGLE CHIEF 69KV SWITCHED SHUNT
FDNSLock	02ALL		0 17G	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	131.1536	EAGLE CHIEF 69KV SWITCHED SHUNT
FDNSLock	02ALL		0 17G	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07835	131.1536	EAGLE CHIEF 69KV SWITCHED SHUNT
FDNSLock	02ALL		0 17G	G11_022	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.04763	131.1536	EAGLE CHIEF 69KV SWITCHED SHUNT
FDNS	03ALL		0 17G	ASGI_11_002	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.03622	106.6862	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0 17G	ASGI_11_002	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.03622	106.6862	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0 17G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.11099	106.6862	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0 17G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.11099	106.6862	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	3		0 17G	G11_008	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.16275	104.1353	DBL-CLRK-THI
FDNS	03ALL		0 17G	G11_014	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.03966	106.6862	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0 17G	G11_014	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.03966	106.6862	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0 17G	G11_016	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.13842	106.6862	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	3		0 17G	G11_016	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.16275	104.1353	DBL-CLRK-THI
FDNS	03G11_016		0 17G	G11_016	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.16262	107.144	DBL-CLRK-THI
FDNS	03ALL		0 17G	G11_019	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.03383	106.6862	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0 17G	G11_019	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.03383	106.6862	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0 17G	G11_020	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.03383	106.6862	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0 17G	G11_020	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.03383	106.6862	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0 17G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.04323	106.6862	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	03ALL		0 17G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.04323	106.6862	POST ROCK - SPEARVILLE 345KV CKT 1
FDNS	3		0 17G	G11_022	TO->FROM	MULLERGREN - SPEARVILLE 230KV CKT 1	398.4	0.03172	104.1353	DBL-CLRK-THI
FDNS	0		0 17SP	ASGI_11_002	TO->FROM	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03254	100.5619	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	0		0 17SP	ASGI_11_002	TO->FROM	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03254	100.5619	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	00ASGI_11_002		0 17SP	ASGI_11_002	TO->FROM	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03255	101.0664	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	00ASGI_11_002		0 17SP	ASGI_11_002	TO->FROM	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	96	0.03255	101.0664	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	00G11_019		0 17SP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08907	101.4506	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	00G11_019		0 17SP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11578	100.1871	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_019		0 17SP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07985	100.5694	GEN520998 1-MORLND3
FDNS	00G11_019		0 17SP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12127	99.7	DBL-THIS-WWR
FDNS	00G11_020		0 17SP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08907	101.4506	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	00G11_020		0 17SP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11578	100.1871	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_020		0 17SP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.07985	100.5694	GEN520998 1-MORLND3
FDNS	00G11_020		0 17SP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12127	99.7	DBL-THIS-WWR
FDNS	00G11_019		0 20SP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09003	104.2175	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	00G11_019		0 20SP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11642	100.9677	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_019		0 20SP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08074	102.2422	GEN520998 1-MORLND3
FDNS	00G11_019		0 20SP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08074	100.3703	GEN520997 1-MORLND2
FDNS	00G11_019		0 20SP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12315	103.9021	DBL-THIS-WWR
FDNS	00G11_020		0 20SP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.09003	104.2175	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
FDNS	00G11_020		0 20SP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.11642	100.9677	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_020		0 20SP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08074	102.2422	GEN520998 1-MORLND3
FDNS	00G11_020		0 20SP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.08074	100.3703	GEN520997 1-MORLND2
FDNS	00G11_020		0 20SP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	153	0.12315	103.9021	DBL-THIS-WWR
FDNS	00G11_019		0 20WP	G11_019	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05088	106.6464	DBL-THIS-WIC
FDNS	00G11_020		0 20WP	G11_020	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.05088	106.6464	DBL-THIS-WIC
FDNS	00G11_022		0 20WP	G11_022	TO->FROM	CLEARWATER - MILAN TAP 138KV CKT 1	110	0.04486	104.1968	DBL-THIS-WIC
FDNS	00G11_019		0 20WP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	185	0.11693	109.6229	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	00G11_019		0 20WP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	185	0.11693	114.5402	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_019		0 20WP	G11_019	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	185	0.12346	106.3673	DBL-THIS-WWR
FDNS	00G11_020		0 20WP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	185	0.11693	109.6229	TATONGA7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	00G11_020		0 20WP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	185	0.11693	114.5402	MATHWSN7 345.00 - TATONGA7 345.00 345KV CKT 1
FDNS	00G11_020		0 20WP	G11_020	TO->FROM	FPL SWITCH - WOODWARD 138KV CKT 1	185	0.12346	106.3673	DBL-THIS-WWR
FDNS	0		0 25SP	ASGI_11_002	TO->FROM	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	160	0.03405	112.7951	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	0		0 25SP	ASGI_11_002	TO->FROM	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	160	0.03405	112.7951	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	00ASGI_11_002	0	25SP	ASGI_11_002	TO->FROM	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	160	0.03405	113.1879	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	00ASGI_11_002	0	25SP	ASGI_11_002	TO->FROM	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1	160	0.03405	113.1879	BUSHLAND INTERCHANGE - DEAF SMITH COUNTY INTERCHANGE 230KV CKT 1
FDNS	0	0	25SP	ASGI_11_002	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03272	107.9879	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	0	0	25SP	ASGI_11_002	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03272	107.9879	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	00ASGI_11_002	0	25SP	ASGI_11_002	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03272	108.0754	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	00ASGI_11_002	0	25SP	ASGI_11_002	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03272	108.0754	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	0	0	25SP	ASGI_11_002	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.06753	105.4011	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	00ASGI_11_002	0	25SP	ASGI_11_002	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.06752	105.718	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	0	0	25SP	ASGI_11_002	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03925	101.8741	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	00ASGI_11_002	0	25SP	ASGI_11_002	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03925	102.2114	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	0	0	25SP	ASGI_11_002	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03925	101.9423	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	0	0	25SP	ASGI_11_002	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03925	101.9423	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	00ASGI_11_002	0	25SP	ASGI_11_002	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03925	102.2745	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	00ASGI_11_002	0	25SP	ASGI_11_002	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03925	102.2745	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	0	0	25SP	G11_014	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.0363	105.4011	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	00G11_014	0	25SP	G11_014	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03631	107.4374	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	00G11_014	0	25SP	G11_014	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03025	99.5	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1
FDNS	0	0	25SP	G11_014	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03217	101.8741	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	00G11_014	0	25SP	G11_014	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03217	103.6908	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	0	0	25SP	G11_014	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03217	101.9423	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	0	0	25SP	G11_014	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03217	101.9423	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	00G11_014	0	25SP	G11_014	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03217	103.7706	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	00G11_014	0	25SP	G11_014	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03217	103.7706	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03874	102.3675	TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04133	100.4664	P12:115:SPS:W40.1.WCANYON.DFSMTH
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04133	104.4577	P12:115:SPS:V05.1.OSAGE.WCANYON
FDNS	0	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.02964	107.9879	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	0	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.02964	107.9879	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03019	111.3651	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03019	111.3651	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	0	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04925	105.4011	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04977	114.4763	NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03019	101.7339	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03019	101.7339	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04051	101.4808	Harrington Station Mid Bus - RANDALL COUNTY INTERCHANGE 230KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04051	101.4808	Harrington Station Mid Bus - RANDALL COUNTY INTERCHANGE 230KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04313	99.4	Harrington Station East Bus - Harrington Station Mid Bus 230KV CKT @1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	102.8899	GEN528501 1-G14_012 24.000
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	99.6	GEN528361 1-MADDOX GEN #1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	104.8883	GEN527903 1-HOBBS PLANT #3 (ST)
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	101.2574	GEN527902 1-HOBBS PLANT #2 (CT)
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	101.31	GEN527901 1-HOBBS PLANT #1 (CT)
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	101.5553	GEN527166 1-MUSTANG_6 118.000
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	101.0158	GEN527165 1-Mustang GEN #5
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	101.1075	GEN527164 1-MUSTANG GEN #4 22 KV
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	102.0211	GEN527163 1-MUSTANG GEN #3 22 KV
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	101.5068	GEN527162 1-MUSTANG GEN #2
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	101.5068	GEN527161 1-MUSTANG GEN #1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	100.715	GEN526334 1-JONES_4 116.500
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	101.35	GEN526333 1-JONES GEN #3 21 KV
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	103.5893	GEN526332 1-JONES GEN #2 21 KV
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	103.6055	GEN526331 1-JONES GEN #1 22 KV
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	100.6614	GEN525845 1-ELK_2 1 18.000
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	100.6631	GEN525844 1-ELK_1 118.000
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	103.9207	GEN525494 1-PLANT X GEN #4 20 KV
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04133	99.8	DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.07879	99	DBL-G1114-WW
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04133	100.5066	DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04133	101.0705	CANYON WEST SUB - DAWN SUB 115KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04133	105.5535	CANYON E_TP3115.00 - RANDALL COUNTY INTERCHANGE 115KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04133	103.2913	CANYON E_TP3115.00 - CANYON WEST SUB 115KV CKT 1
FDNS	0	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03892	101.8741	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03944	107.873	BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1
FDNS	0	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03892	101.9423	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	0	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03892	101.9423	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03944	107.9319	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03944	107.9319	BORDER 7345.00 - TUCO INTERCHANGE 345KV CKT 1

SOLUTION	GROUP	SCENARIO	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT	RATE(MVA)	TDF	TC%LOADING (% MVA)	CONTINGENCY
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.03884	103.7695	BASE CASE
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04333	103.0688	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	00G11_022	0	25SP	G11_022	TO->FROM	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1	350.57	0.04333	103.0688	AMARILLO SOUTH INTERCHANGE - SWISHER COUNTY INTERCHANGE 230KV CKT 1
FDNS	0	0	25SP	G11_010	TO->FROM	STLN-DEMAR6 - SWEETWATER 230KV CKT 1	353	0.04802	99.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	0	0	25SP	G11_010	TO->FROM	STLN-DEMAR6 - SWEETWATER 230KV CKT 1	353	0.04802	99.4	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	00G11_010	0	25SP	G11_010	TO->FROM	STLN-DEMAR6 - SWEETWATER 230KV CKT 1	353	0.04793	104.8477	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNS	00G11_010	0	25SP	G11_010	TO->FROM	STLN-DEMAR6 - SWEETWATER 230KV CKT 1	353	0.04793	104.8477	OKLAUNION - TUCO INTERCHANGE 345KV CKT 1
FDNSLock-Blown up	02ALL	0	17G	ASGI_11_002		Non-Converged Contingency	-	0.33791	-	DBL-HTCH-BVR
FDNSLock-Blown up	02ASGI_11_002	0	17G	ASGI_11_002		Non-Converged Contingency	-	0.34141	-	DBL-G1114-WW
FDNSLock-Blown up	02ALL	0	17G	ASGI_11_002		Non-Converged Contingency	-	0.33791	-	DBL-G1114-WW
FDNSLock-Blown up	2	0	17G	ASGI_11_002		Non-Converged Contingency	-	0.3414	-	DBL-G1114-WW
FDNSLock-Blown up	02ALL	0	17G	ASGI_11_002		Non-Converged Contingency	-	0.33791	-	DBL-BVR-G111
FDNSLock-Blown up	03G11_008	0	17G	G11_008		Non-Converged Contingency	-	0.56042	-	DBL-CLRK-THI
FDNSLock-Blown up	03ALL	0	17G	G11_008		Non-Converged Contingency	-	0.55985	-	DBL-CLRK-THI
FDNSLock-Blown up	02G11_014	0	17G	G11_014		Non-Converged Contingency	-	0.62332	-	DBL-G1114-WW
FDNSLock-Blown up	02ALL	0	17G	G11_014		Non-Converged Contingency	-	0.61979	-	DBL-G1114-WW
FDNSLock-Blown up	2	0	17G	G11_014		Non-Converged Contingency	-	0.62328	-	DBL-G1114-WW
FDNSLock-Blown up	02ALL	0	17G	G11_016		Non-Converged Contingency	-	0.03511	-	DBL-HTCH-BVR
FDNSLock-Blown up	02ALL	0	17G	G11_016		Non-Converged Contingency	-	0.03511	-	DBL-G1114-WW
FDNSLock-Blown up	2	0	17G	G11_016		Non-Converged Contingency	-	0.0386	-	DBL-G1114-WW
FDNSLock-Blown up	03ALL	0	17G	G11_016		Non-Converged Contingency	-	0.45336	-	DBL-CLRK-THI
FDNSLock-Blown up	02ALL	0	17G	G11_016		Non-Converged Contingency	-	0.03511	-	DBL-BVR-G111
FDNSLock-Blown up	03ALL	0	17G	G11_018		Non-Converged Contingency	-	0.06854	-	DBL-CLRK-THI
FDNSLock-Blown up	02ALL	0	17G	G11_022		Non-Converged Contingency	-	0.49875	-	DBL-HTCH-BVR
FDNSLock-Blown up	02G11_022	0	17G	G11_022		Non-Converged Contingency	-	0.49984	-	DBL-G1114-WW
FDNSLock-Blown up	02ALL	0	17G	G11_022		Non-Converged Contingency	-	0.49875	-	DBL-G1114-WW
FDNSLock-Blown up	2	0	17G	G11_022		Non-Converged Contingency	-	0.50224	-	DBL-G1114-WW
FDNSLock-Blown up	03ALL	0	17G	G11_022		Non-Converged Contingency	-	0.03467	-	DBL-CLRK-THI
FDNSLock-Blown up	02G11_022	0	17G	G11_022		Non-Converged Contingency	-	0.49984	-	DBL-BVR-G111
FDNSLock-Blown up	02ALL	0	17G	G11_022		Non-Converged Contingency	-	0.49875	-	DBL-BVR-G111

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

Not performed for this study iteration. Please refer to previous iteration.