

Definitive Interconnection System Impact Re-Study for Generation Interconnection Requests

Southwest Power Pool
Engineering Department
Generation Interconnection

(DISIS-2009-001-1 Study)
June 2010



SPP RESTRICTED

Executive Summary

Pursuant to the Southwest Power Pool (SPP) Open Access Transmission Tariff (OATT), SPP has conducted this Definitive Interconnection System Impact Study (DISIS) for certain generation interconnection requests in the SPP Generation Interconnection Queue. These interconnection requests have been clustered together for the following Impact Study. This restudy is being conducted to account for withdrawals of both higher queued interconnection customers and interconnection customers within the DISIS-2009-001 study. The customers will be referred to in this study as the DISIS-2009-001 Interconnection Customers. This Impact Study analyzes the interconnecting of multiple generation interconnection requests associated with new generation totaling 2,859 MW of new generation which would be located within the transmission systems of American Electric Power West (AEPW), Midwest Energy Inc. (MIDW), Missouri Public Service (MIPU), Mid-Kansas Electric Power LLC (MKEC), Nebraska Public Power District (NPPD), Oklahoma Gas and Electric (OKGE), Southwestern Public Service (SPS), Sunflower Electric Power Corporation (SUNC), Westar Energy (WERE). The various generation interconnection requests have differing proposed in-service dates¹. The generation interconnection requests included in this DISIS are listed in Appendix A by their queue number, amount, area, requested interconnection point, proposed interconnection point, and the requested in-service date.

Power flow analysis has indicated that for the powerflow cases studied, 2,859 MW of nameplate generation may be interconnected with transmission system reinforcements within the SPP transmission system. Dynamic Stability Analysis and additional powerflow analysis for power factor requirements 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 Interconnection Facilities to the DISIS.

Changes from the DISIS-2009-001 study include the following:

- Withdrawal of GEN-2006-037N
- Withdrawal of GEN-2009-006
- Removal of withdrawn Higher Queued Projects and associated upgrades in ICS-2008-001

A limited dynamic stability analysis was performed for this restudy. The study models were adjusted to reflect the changes listed above and a limited number of 345kV outages were simulated to determine that transmission system stability would be maintained. The power factor analysis was not performed again. Dynamic Stability Analysis has determined that the transmission system will remain stable with the assigned Network Upgrades and Interconnection Facilities to the DISIS-2009-001 Generation Interconnection Customers.

The need for reactive compensation in accordance with Order No. 661-A for wind farm interconnection requests and those requirements were determined in the previous Impact Study DISIS-2009-001 and those results still apply.

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 completion of the Facility Study.

The total estimated minimum cost for interconnecting the DISIS-2009-001 interconnection customers is \$141,989,001. These costs are shown in Appendix E and F. Interconnection Service to DISIS-2009-001 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.

Network Constraints listed in Appendix H are in the local area of the new generation when this generation is injected throughout the SPP footprint for the Energy Resource (ER) Interconnection Request. 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.

These costs do not include the Interconnection Customer Interconnection Facilities as defined by the SPP Open Access Transmission Tariff (OATT). 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.

Based on the SPP Tariff Attachment O, transmission facilities that are part of the SPP Transmission Expansion Plan (STEP) including Sponsored Economic Upgrades or the Balanced Portfolio that may be approved by the SPP Board of Directors will receive notifications to construct. These projects will then be considered construction pending projects and would not be assignable to the Impact Cluster Study Generation Interconnection Requests.

Table of Contents

Introduction	5
Model Development	5
Identification of Network Constraints	8
Determination of Cost Allocated Network Upgrades	8
Interconnection Facilities	9
Powerflow	10
Stability Analysis	12
Regional Maps with Proposed Upgrades	Error! Bookmark not defined.
Conclusion	14
Appendix	15
A: Generation Interconnection Requests Considered for Impact Study.....	A-1
B: Prior Queued Interconnection Requests	B-1
C: Study Groupings.....	C-1
D: Proposed Point of Interconnection One line Diagrams	D-1
E: Cost Allocation per Interconnection Request	E-1
F: Cost Allocation per Proposed Study Network Upgrade	F-1
G: ACCC Analysis (No Upgrades).....	Error! Bookmark not defined.
H: ACCC Analysis (No Prior Queued Upgrades)	H-1

Introduction

Pursuant to the Southwest Power Pool (SPP) Open Access Transmission Tariff (OATT), SPP has conducted this Definitive Interconnection System Impact Study (DISIS) for certain generation interconnection requests in the SPP Generation Interconnection Queue. These interconnection requests have been clustered together for the following Impact Study. The customers will be referred to in this study as the DISIS-2009-001 Interconnection Customers. This Impact Study analyzes the interconnecting of multiple generation interconnection requests associated with new generation totaling 2,859 MW of new generation which would be located within the transmission systems of American Electric Power West (AEPW), Midwest Energy Inc. (MIDW), Missouri Public Service (MIPU), Mid-Kansas Electric Power LLC (MKEC), Nebraska Public Power District (NPPD), Oklahoma Gas and Electric (OKGE), Southwestern Public Service (SPS), Sunflower Electric Power Corporation (SUNC), Westar Energy (WERE). The various generation interconnection requests have differing proposed in-service dates². The generation interconnection requests included in this Impact Cluster Study are listed in Appendix A by their queue number, amount, area, requested interconnection point, proposed interconnection point, and the requested in-service date.

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

Model Development

Interconnection Requests Included in the DISIS-2009-001-1 Study

SPP has included all interconnection requests that submitted a Definitive Interconnection System Impact Study request no later than September 30, 2009 and were subsequently accepted by Southwest Power Pool under the terms of the Large Generation Interconnection Procedures (LGIP) that became effective June 2, 2009.

In addition, SPP included GEN-2009-017 which is an interconnection into the Caprock system as an affected system. GEN-2009-017 was analyzed for its impacts upon the SPP Transmission System. The report for GEN-2009-017 will be posted separately.

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

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 completion of the Facility Study.

Previous Queued Projects

The previous queued projects included in this study are listed in Appendix B. In addition to the Base Case Upgrades, the previous queued projects and associated upgrades were assumed to be in-service and added to the Base Case models. These projects were dispatched as Energy Resources with equal distribution across the SPP footprint.

Development of Base Cases

Powerflow - The 2009 series Transmission Service Request (TSR) Models 2010 spring and 2014 summer and winter peak scenario 0 peak cases were used for this study. After the 2010 spring and the 2014 summer and winter peak cases were developed, each of the control areas' resources were then re-dispatched using current dispatch orders.

Stability – The 2009 series SPP Model Development Working Group (MDWG) Models 2009 winter and 2010 summer were used for this study.

Base Case Upgrades

The following facilities are part of the SPP Transmission Expansion Plan or the Balanced Portfolio. These facilities have been approved or are in construction stages and were assumed to be in-service at the time of dispatch and added to the base case models. The DISIS-2009-001 Customers have no potential cost for the below listed projects. However, the DISIS-2009-001 Customers Generation Facilities in service dates may need to be delayed until the completion of the following upgrades. If for some reason, construction on these projects is discontinued, additional restudies will be needed to determine the interconnection needs of the DISIS customers.

- Hitchland 345/230/115kV upgrades to be built by SPS for 2010/2011 in-service³.
- Hitchland – Pringle 230kV line
- Hitchland – Moore County 230kV line
- Hitchland – Ochiltrie 230kV line
- Hitchland – Texas County 115kV line
- Hitchland – Hansford County 115kV line
- Hitchland – Sherman County Tap 115kV line
- Valliant – Hugo – Sunnyside 345kV – assigned to Aggregate Study AG3-2006 Customers for 2011 in-service
- Wichita – Reno County – Summit 345kV to be built by WERE for 2011 in-service⁴.
- Rose Hill – Sooner 345kV to be built by WERE/OKGE for 2010 in-service.
- Tuco – Woodward 345kV line approved by the SPP Board of Directors as part of the Balanced Portfolio and issued an NTC in June, 2009
- Spearville – Knoll- Axtell 345kV line approved by the SPP Board of Directors as part of the Balanced Portfolio and issued an NTC in June, 2009

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

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

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-2009-001-1 study and are assumed to be in service. The DISIS-2009-001-1 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 LGIA or withdraw from the interconnection queue. The DISIS-2009-001-1 Customer Generation Facilities in service dates may need to be delayed until the completion of the following upgrades.

- Finney – Holcomb 345kV ckt #2 line assigned to GEN-2006-044 interconnection customer. This customer is currently in suspension⁵.
- Hitchland – Woodward 345kV line assigned to GEN-2006-049 interconnection customer for in service date yet to be determined
- Stevens County – Gray County 345kV line assigned to 1st Cluster Interconnection Customers
- Central Plains – Setab 115kV transmission line assigned to GEN-2007-013 interconnection customer.
- Spearville – Comanche 345kV line assigned to 1st Cluster Interconnection Customers
- Comanche – Wichita 345kV line assigned to 1st Cluster Interconnection Customers
- Comanche – Woodward 345kV line assigned to 1st Cluster Interconnection Customers
- Grassland 230/115kV autotransformer #2 assigned to 1st Cluster Interconnection Customers (100% to GEN-2008-016)

Removed Contingent Upgrades due to Higher Queued Withdrawals

The following upgrades were in the initial study for DISIS-2009-001 and were assigned to higher queued projects. Due to the withdrawal of certain higher queued projects and the restudy of the remaining higher queued projects, the upgrades that have been removed are

- Conway – Wheeler – Anadarko 345kV transmission line
- Conway 345/115kV autotransformer
- Wheeler 345/230kV autotransformer
- Grapevine 230/115kV autotransformer upgrade

Potential Upgrades Not in the Base Case

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

Regional Groupings

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

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

⁵ Based on Facility Study Posting November 2008

Powerflow - For each group, the various wind generating plants were modeled at 80% nameplate of maximum generation. The wind generating plants in the other areas were modeled at 20% nameplate of maximum generation. This process created twelve different scenarios with each group being studied at 80% nameplate rating. These projects were dispatched as Energy Resources with equal distribution across the SPP footprint. This method allowed for the identification of network constraints that were common to the regional groupings that could then in turn have the mitigating upgrade cost allocated throughout the entire cluster. Each interconnection request was also modeled separately at 100% nameplate for certain analyses.

Peaking units were not dispatched in the 2010 spring model. To study peaking units' impacts, the 2014 summer and winter peak model was chosen and peaking units were modeled at 100% of the nameplate rating and wind generating facilities were modeled at 10% of the nameplate rating.

Stability - For each group, all interconnection requests (wind and non-wind) were modeled at 100% nameplate of maximum generation in both winter and summer seasonal models. The wind interconnection requests in the other areas were modeled at 20% nameplate of maximum generation while fossil units were modeled at 100% in the other areas. This process created twelve different scenarios with each group being studied at 100% nameplate rating. These projects were dispatched as Energy Resources with equal distribution across the SPP footprint.

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.

Determination of Cost Allocated Network Upgrades

Cost Allocated Network Upgrades of wind generation interconnection requests were determined using the 2010 spring model. Cost Allocated Network Upgrades of peaking units was determined using the 2014 summer peak model. Once a determination of the required Network Upgrades was made, a powerflow model of the 2010 spring case was developed with all cost allocated Network Upgrades in-service. A MUST FCITC analysis was performed to determine the Power Transfer Distribution Factors (PTDF), defined as a distribution factor with system impact conditions 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 Z1 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.

Interconnection Facilities

The requirement to interconnect the 2,859 MW of generation into the existing and proposed transmission systems in the affected areas of the SPP transmission footprint consist of the necessary cost allocated shared facilities listed in Appendix F by upgrade. These network upgrades total \$141,989,000. Interconnection Facilities specific to each generation interconnection request are listed in Appendix E.

Network Constraints in the AEPW, MIDW, MIPU, MKEC, NPPD, OKGE, SPS, SUNC, AND WERE transmission systems that were identified are shown in Appendix H. With a defined source and sink in a TSR, this list of Network Constraints will be refined and expanded to account for all Network Upgrade requirements.

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

Powerflow

Powerflow Analysis Methodology

The Southwest Power Pool (SPP) Criteria states that:

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

The ACCC function of PSS/E was used to simulate single contingencies in portions or all of the modeled control areas of American Electric Power West (AEPW), Empire District Electric (EMDE), Grand River Dam Authority (GRDA), Kansas City Power & Light (KCPL), Midwest Energy (MIDW), MIPU, MKEC, Nebraska Public Power District (NPPD), OG&E Electric Services (OKGE), Omaha Public Power District (OPPD), Southwest Public Service (SPS), Sunflower Electric (SUNC), Westar Energy (WERE), Western Farmers Electric Cooperative (WFEC) and other control areas were applied and the resulting scenarios analyzed. This satisfies the “more probable” contingency testing criteria mandated by NERC and the SPP criteria.

Powerflow Analysis

A powerflow analysis was conducted for each Interconnection Customer’s facility using modified versions of the 2010 spring peak and the 2014 summer and winter peak models. The output of the Interconnection Customer’s facility was offset in each model by a reduction in output of existing online SPP generation. This method allows the request to be studied as an Energy Resource (ER) Interconnection Request. The available seasonal models used were through the 2014 Summer Peak.

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

Cluster Group 1 (Woodward Area)

The Woodward area contained approximately 250.5 MW of new interconnection requests in addition to the 2,802 MW of prior queued interconnection requests. No new constraints were found in this area.

Cluster Group 2 (Hitchland Area)

The Hitchland area contained 0 MW of interconnection request in addition to the 2,482 MW of previous queued generation interconnection requests. No new constraints were found in this area.

Cluster Group 3 (Spearville Area)

The Spearville area contained 500.6 MW of interconnection requests and 1,832 MW of previous queued interconnection requests. Constraints were observed in the Judson Large area. To mitigate these issues, a second 115kV circuit from GEN-2008-079 – Judson Large - Judson Large – North Judson Large – Spearville was added. In addition, a Spearville 230/115kV autotransformer was added. Also, the proposed point of interconnection for GEN-2008-124 at Spearville 230kV was considered infeasible due to the excessive amount of prior queued generation at this bus and lack of 230kV lines in the area. As a result, the point of interconnection was moved to the Spearville 345kV bus.

Cluster Group 4 (Mingo/NW Kansas Group)

The Mingo/NW Kansas group had 101.2 MW in addition to the 823 MW of previously queued generation in the area. No new constraints were found in this area.

Cluster Group 5 (Amarillo Area)

The Amarillo group had 322 MW of interconnection requests in addition to the 1,846 MW of previously queued interconnection requests in this area. No new constraints were found in this area. However, the interconnection requests in service dates in this group will be dependent upon the upgrades assigned to higher queued interconnection requests including the completion of the Hitchland-Woodward 345kV line and Balanced Portfolio project Tuco-Woodward 345kV.

Cluster Group 6 (South Panhandle/New Mexico)

The Group 6 study which includes GEN-2009-017 will be posted separately

Cluster Group 7 (Southwestern Oklahoma)

This group had 290 MW of interconnection requests in addition to the 1,548 MW of previous queued generation in the area. No new constraints were found in this area.

Cluster Group 8 (South Central Kansas/North Oklahoma)

This group had 446 MW of interconnection requests in addition to the 1,801 MW of previous queued generation in the area. Constraints were observed due to higher queued generation in the immediate area that is in the AECI queue. AECI has not fully analyzed the mitigations for these higher queued projects at this time. SPP has assigned the mitigations assuming all higher queued projects on the AECI queue go into service. The new lines assigned went from the GEN-2008-038 facility to Barnsdall 138kV.

Cluster Group 9 (Northeast Nebraska)

This group had 391 MW of interconnection requests in addition to the 207 MW of previous queued generation in the area. The major constraints were overloads on the Albion – Petersburg 115kV line and the Bloomfield – Gavins 115kV line. To mitigate these constraints, a 115kV line was modeled from Bloomfield – Beldon as well as a 115kV line from Petersburg – Madison.

Cluster Group 10 (North Nebraska)

This group had 75 MW of interconnection requests in addition to the 209 MW of previous queued generation in the area. No constraints were found.

Cluster Group 11 (North Kansas)

This group had 251 MW of interconnection requests in addition to the 725 MW of previous queued generation in the area. The major constraints for the North Kansas area included several 115kV lines in the area due to too much generation requested on the 115kV system at Knoll. As a result of the constraints, the proposed point of interconnection for GEN-2008-092 was moved to Knoll 230kV.

Cluster Group 13 (Kansas City Kansas)

This group had 80 MW of interconnection requests in addition to the 1,806 MW of previous queued generation in the area. The only constraint was a line trap on the Kansas City South – Longview 161kV line.

Stability Analysis

A limited stability analysis was conducted for each Interconnection Customer's facility using modified versions of the 2010 winter peak and the 2010 summer peak models. The stability analysis was conducted with all upgrades in service that were identified in the powerflow analysis. For each group, the interconnection requests were studied at 100% nameplate output while the other groups were dispatched at 20% output for wind requests and 100% output for fossil requests. The output of the Interconnection Customer's facility was offset in each model by a reduction in output of existing online SPP generation. The following synopsis is included for each group.

The following faults were run for Groups 5 and 7

1. 3 phase fault at the Tuco-Woodward 345kV midpoint bus. Trip and lockout out Tuco-Woodward 345kV
2. 3 phase fault at Woodward 345kV bus. Trip and lockout out Tuco-Woodward 345kV
3. 3 phase fault at Tuco 345kV bus. Trip and lockout out Tuco-Woodward 345kV
4. 3 phase fault at Hitchland 345kV bus. Trip and lockout out Hitchland-Woodward 345kV
5. 3 phase fault at Woodward 345kV bus. Trip and lockout out Hitchland-Woodward 345kV
6. 3 phase fault at Finney 345kV bus. Trip and lockout out Finney – Stevens County 345kV
7. 3 phase fault at Stevens County 345kV bus. Trip and lockout out Finney – Stevens County 345kV
8. 3 phase fault at Stevens County 345kV bus. Trip and lockout out Stevens County – Gray County 345kV
9. 3 phase fault at Gray County 345kV bus. Trip and lockout out Stevens County – Gray County 345kV
10. 3 phase fault at Medicine Lodge 345kV bus. Trip and lockout Medicine Lodge – Wichita 345kV
11. 3 phase fault at Wichita 345kV bus. Trip and lockout Medicine Lodge – Wichita 345kV
12. 3 phase fault at Tatonga 345kV bus. Trip and lockout out Tatonga – Northwest 345kV
13. 3 phase fault at Northwest 345kV bus. Trip and lockout out Tatonga – Northwest 345kV
14. 3 phase fault at Grapevine 230kV bus. Trip and lockout Grapevine – Wheeler 230kV
15. 3 phase fault at GEN-2005-015 tap on Tuco-Oklunion 345kV. Trip line from GEN-2005-015 tap to Oklaunion.

Cluster Group 1 (Woodward Area)

Power Factor and LVRT analysis from DISIS-2009-001 posted February, 2010 still applies. No additional simulations were run in this area.

Cluster Group 2 (Hitchland Area)

No requests in Group 2.

Cluster Group 3 (Spearville Area)

Power Factor and LVRT analysis from DISIS-2009-001 posted February, 2010 still applies. No additional simulations were run in this area.

Cluster Group 4 (Mingo Area)

Power Factor and LVRT analysis from DISIS-2009-001 posted February, 2010 still applies. No additional simulations were run in this area.

Cluster Group 5 (Amarillo Area)

Power Factor and LVRT analysis from DISIS-2009-001 posted February, 2010 still applies. Simulations show that the transmission system will remain stable with all network upgrades in service.

Cluster Group 6 (South Panhandle Area)

Power Factor and LVRT analysis from DISIS-2009-001 posted February, 2010 still applies. No additional simulation were run in this area.

Cluster Group 7 (Southwest Oklahoma)

Power Factor and LVRT analysis from DISIS-2009-001 posted February, 2010 still applies. Simulations show that the transmission system will remain stable with all network upgrades in service.

Cluster Group 8 (South Central Kansas)

Power Factor and LVRT analysis from DISIS-2009-001 posted February, 2010 still applies. No additional simulations were run in this area.

Cluster Group 9 (Northeast Nebraska)

Power Factor and LVRT analysis from DISIS-2009-001 posted February, 2010 still applies. No additional simulations were run in this area.

Cluster Group 10 (North Nebraska)

Power Factor and LVRT analysis from DISIS-2009-001 posted February, 2010 still applies. No additional simulations were run in this area.

Cluster Group 11 (North Kansas)

Power Factor and LVRT analysis from DISIS-2009-001 posted February, 2010 still applies. No additional simulations were run in this area.

Cluster Group 13 (Kansas City Kansas)

No additional simulations were run in this area.

Conclusion

The minimum cost of interconnecting all of the interconnection requests included in this Impact Cluster Study is estimated at \$141,989,001 for the Allocated Network Upgrades and Transmission Owner Interconnection Facilities are listed in Appendix E and F These costs do not include the cost of upgrades of other transmission facilities listed in Appendix H which are Network Constraints.

These interconnection costs do not include any cost of Network Upgrades determined to be required by short circuit analysis. These studies are being performed as part of the Interconnection System Facility Study that each customer has already executed.

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

Request	Amount	Area	Requested Point of Interconnection	Proposed Point of Interconnection	Requested In-Service Date
GEN-2006-037N1	75	NPPD	BROKEN BOW 115kV	BROKEN BOW 115kV	1/1/2010
GEN-2006-044N	40.5	NPPD	TAP NELIGH-PETERSBURG 115kV	TAP NELIGH-PETERSBURG 115kV	1/1/2010
GEN-2007-011N06	75	NPPD	TAP NELIGH-PETERSBURG 115kV	PETERSBURG 115kV	1/1/2010
GEN-2007-011N09	75	NPPD	BLOOMFIELD 115kV	BLOOMFIELD 115kV	
GEN-2007-040	200	SUNC	Tap Holcomb – Spearville 345kV	Tap Holcomb – Spearville 345kV	12/15/2010
GEN-2008-021	42	WERE	WOLF CREEK 345kV	WOLF CREEK 345kV	5/16/2011
GEN-2008-023	150	AEPW	HOBART JUNCTION 138kV	HOBART JUNCTION 138kV	12/31/2012
GEN-2008-025	101.2	SUNC	RULETON 115kV	RULETON 115kV	11/1/2009
GEN-2008-029	250.5	OKGE	WOODWARD EHV 138kV	WOODWARD EHV 138kV	1/1/2010
GEN-2008-038	144	AEPW	TAP SHIDLER-WEST PAWHUSKA 138kV	TAP SHIDLER-WEST PAWHUSKA 138kV	12/1/2010
GEN-2008-051	322	SPS	POTTER 345kV	POTTER 345kV	12/31/2010
GEN-2008-079	100.5	MKEC	TAP JUDSON LARGE-CUDAHY 115kV	TAP JUDSON LARGE-CUDAHY 115kV	12/1/2010
GEN-2008-086N02	200	NPPD	TAP FT RANDALL-COLUMBUS 230kV	TAP FT RANDALL-COLUMBUS 230kV	
GEN-2008-092	201	MIDW	KNOLL 115kV	KNOLL 230kV	12/1/2011
GEN-2008-124	200.1	SUNC	SPEARVILLE 230kV	SPEARVILLE 345kV	11/30/2011
GEN-2008-127	200.1	WERE	TAP SOONER-ROSE HILL 345kV	TAP SOONER-ROSE HILL 345kV	10/31/2011
GEN-2008-129	80	MIPU	PLEASANT HILL 161kV	PLEASANT HILL 161kV	5/1/2009
GEN-2009-011	50	SUNC	TAP PLAINVILLE-PHILLIPSBURG 115kV	TAP PLAINVILLE-PHILLIPSBURG 115kV	7/31/2011
GEN-2009-016	140	MKEC	FALCON ROAD 138kV	FALCON ROAD 138kV	12/1/2011
GEN-2009-017**	151.8	SPS	TAP PEMBROOK-STILES 138kV	TAP PEMBROOK-STILES 138kV	6/1/2011
GEN-2009-025	60	OKGE	KAYCOOP 69kV	TAP Deer Creek – Sinclair 69kV	12/31/2011
GROUPED TOTAL	2,858.7				

** Interconnection on Caprock Electric tested for impacts on SPP

* Planned Facility

^ Proposed Facility

*** Electrically Remote Interconnection Requests

B: Prior Queued Interconnection Requests

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2001-014	96	WFEC	Fort Supply 138kV	On-Line
GEN-2001-026	74	WFEC	Washita 138kV	On-Line
GEN-2001-033	180	SPS	San Juan Mesa Tap 230kV	On-Line
GEN-2001-036	80	SPS	Caprock Tap 115kV	On-Line
GEN-2001-037	100	OKGE	Windfarm Switching 138kV	On-Line
GEN-2001-039A	105	MKEC	Greensburg - Judson-Large 115kV	On Schedule for 2011
GEN-2001-039M	100	SUNC	Leoti – City Services 115kV	On-Line
GEN-2002-004	200	WERE	Latham 345kV	On-Line
GEN-2002-005	120	WFEC	Morewood - Elk City 138kV	On-Line
GEN-2002-006	150	SPS	Texas County 115kV	IA Executed/On Schedule 12/31/2010
GEN-2002-008	240	SPS	*Hitchland 345kV	On-Line at 120MW
GEN-2002-009	80	SPS	Hansford County 115kV	On-Line
GEN-2002-022	240	SPS	Bushland 230kV	On-Line at 160MW
GEN-2002-025A	150	MKEC	Spearville 230kV	On-Line at 100MW
GEN-2003-005	100	WFEC	Anadarko - Paradise 138kV	On Line
GEN-2003-006A	200	MKEC	Elm Creek 230kV	On-Line
GEN-2003-013	198	SPS	*Hitchland - Finney 345kV	On Schedule for 2012
GEN-2003-019	250	MIDW	Smoky Hills Tap 230kV	On-Line
GEN-2003-020	160	SPS	Martin 115kV	On-Line at 80MW
GEN-2003-021N	75	NPPD	Ainsworth Wind Tap	On-Line
GEN-2003-022	120	AEPW	Washita 138kV	On-Line
GEN-2004-005N	30	NPPD	St. Francis 115kV	IA Pending
GEN-2004-010	300	WERE	Latham 345kV	On-Line
GEN-2004-014	155	MKEC	Spearville 230kV	On Schedule for 2011
GEN-2004-020	27	AEPW	Washita 138kV	On-Line
GEN-2005-005	18	OKGE	Windfarm Tap 138kV	IA Pending
GEN-2005-008	120	OKGE	Woodward 138kV	On-Line
GEN-2005-010	160	SPS	Roosevelt County - Tolk West 230kV (Single Ckt Tap)	On Suspension
GEN-2005-012	250	SUNC	Spearville 345kV	On Suspension
GEN-2005-013	201	WERE	Tap Latham - Neosho	On Schedule for 2011
GEN-2005-015	150	SPS	Tuco - Oklaunion 345kV	On Suspension
GEN-2005-016	150	WFEC	Tap Latham - Neosho	On Schedule for 2012
GEN-2005-017	340	SPS	*Hitchland - Potter County 345kV	On Suspension
GEN-2005-021	86	SPS	Kirby 115kV	On Suspension
GEN-2006-002	150	AEPW	Grapevine - Elk City 230kV	On Suspension
GEN-2006-006	206	MKEC	Spearville 230kV	Under Study (ICS-2008-001)
GEN-2006-014	300	MIPU	Tap Maryville – Clarinda 161kV	On Suspension
GEN-2006-017	300	MIPU	Tap Maryville – Clarinda 161kV	On Suspension
GEN-2006-020	18.9	SPS	DWS Frisco Tap	IA Executed/On Schedule 12/31/2010
GEN-2006-020N	42	NPPD	Bloomfield 115kV	1/1/2009
GEN-2006-021	101	WPEK	Flat Ridge Tap 138kV	On-Line (100MW)
GEN-2006-022	150	WPEK	Ninnescah Tap 115kV	On Suspension
GEN-2006-024	20	WFEC	South Buffalo Tap 69kV	On-Line
GEN-2006-031	75	MIDW	Knoll 115kV	On-Line

B-1

Appendix B: Prior Queued Interconnection Requests



Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2006-032	200	MIDW	South Hays 230kV	On Suspension
GEN-2006-034	81	SUNC	Kanarado - Sharon Springs 115kV	On Suspension
GEN-2006-035	225	AEPW	Grapevine - Elk City 230kV	IA Executed/On Schedule
GEN-2006-038N005	80	NPPD	Broken Bow 115kV	On-Line
GEN-2006-038N019	80	NPPD	Petersburg 115kV	5/1/2011
GEN-2006-039	400	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV	On Suspension
GEN-2006-040	108	SUNC	Mingo 115kV	IA Executed/On Schedule
GEN-2006-043	99	AEPW	Grapevine - Elk City 230kV	On-Line
GEN-2006-044	370	SPS	*Hitchland 345kV	On Suspension
GEN-2006-045	240	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV	On Suspension
GEN-2006-046	131	OKGE	Dewey 138kV	On Schedule for 2010
GEN-2006-047	240	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV	On Schedule for 2013
GEN-2006-049	400	SPS	*Hitchland - Finney 345kV	IA Pending
GEN-2007-002	160	SPS	Grapevine 115kV	On Suspension
GEN-2007-005	200	SPS	Pringle 115kV	Under Study (ICS-2008-001)
GEN-2007-006	160	OKGE	Roman Nose 138kV	On Suspension
GEN-2007-011	135	SUNC	Syracuse 115kV	On Schedule
GEN-2007-011N08	81	NPPD	Bloomfield 115kV	On-Line
GEN-2007-013	99	SUNC	Selkirk 115kV	IA Executed/On Schedule
GEN-2007-015	135	WERE	Tap Humboldt – Kelly 161kV	IA Pending
GEN-2007-017	101	MIPU	Tap Maryville – Clarinda 161kV	IA Executed/On Schedule 12/31/2011
GEN-2007-021	201	OKGE	*Tatonga 345kV	Under Study (ICS-2008-001)
GEN-2007-025	300	WERE	Tap Woodring – Wichita 345kV	Under Study (ICS-2008-001)
GEN-2007-032	150	WFEC	Tap Clinton Junction – Clinton 138kV	Under Study (ICS-2008-001)
GEN-2007-034	150	SPS	Tap Eddy – Tolk 345kV	Under Study (ICS-2008-001)
GEN-2007-038	200	SUNC	Speerville 345kV	Under Study (ICS-2008-001)
GEN-2007-043	300	AEPW	Tap Lawton Eastside – Cimarron 345kV	Under Study (ICS-2008-001)
GEN-2007-044	300	OKGE	*Tatonga 345kV	Under Study (ICS-2008-001)
GEN-2007-046	200	SPS	*Hitchland 115kV	Under Study (ICS-2008-001)
GEN-2007-048	400	SPS	Tap Amarillo South – Swisher 230kV	Under Study (ICS-2008-001)
GEN-2007-050	170	OKGE	*Woodward 138kV	Under Study (ICS-2008-001)
GEN-2007-051	200	WFEC	Mooreland 138kV	Under Study (ICS-2008-001)
GEN-2007-052	150	WFEC	Anadarko 138kV	Under Study (ICS-2008-001)
GEN-2007-053	110	MIPU	Tap Maryville – Clarinda 161kV	Under Study (ICS-2008-001)
GEN-2007-057	35	SPS	Moore County East 115kV	Under Study (ICS-2008-001)
GEN-2007-062**	765	OKGE	*Woodward 345kV	Under Study (ICS-2008-001)
GEN-2008-003	101	OKGE	*Woodward EHV 138kV	Under Study (ICS-2008-001)

Appendix B: Prior Queued Interconnection Requests



Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2008-008	60	SPS	Graham 115kV	Under Study (ICS-2008-001)
GEN-2008-009	60	SPS	San Juan Mesa Tap 230kV	Under Study (ICS-2008-001)
GEN-2008-013	300	OKGE	Tap Woodring – Wichita 345kV	Under Study (ICS-2008-001)
GEN-2008-014	150	SPS	Tap Tuco – Oklaunion 345kV	Under Study (ICS-2008-001)
GEN-2008-016	248	SPS	Grassland 230kV	Under Study (ICS-2008-001)
GEN-2008-017	300	SUNC	Setab 345kV	Under Study (ICS-2008-001)
GEN-2008-018	405	SUNC	Finney 345kV	Under Study (ICS-2008-001)
GEN-2008-019**	300	OKGE	*Tatonga 345kV	Under Study (ICS-2008-001)
GEN-2008-119O	60	OPPD	Tap Humboldt – Kelly 161kV	On-Line
Broken Bow	8.3	NPPD	Broken Bow 115kV	On-Line
Ord	13.9	NPPD	Ord 115kV	On-Line
Stuart	2.1	NPPD	Stuart 115kV	On-Line
Genoa	4	NPPD	Genoa 115kV	On-Line
AECI-1	400	AECI	Tap Cooper – Fairport 345kV	Under Study by AECI
AECI-2	99	AECI	Lathrop 161kV	Under Study by AECI
AECI-3	201	AECI	Osborn 161kV	Under Study by AECI
AECI-4	150	AECI	Tap Fairfax – Fairfax Tap 138kV	Under Study by AECI
AECI-5	100	AECI	Maryville 161kV	Under Study by AECI
AECI-6	200	AECI	Tap Fairfax – Fairfax Tap 138kV	Under Study by AECI
Llano Estacado	80	SPS	Llano Wind Farm Tap 115kV	On-Line
Distribution Wind	90	SPS	DUMAS_19ST 115kV	On-Line
			Etter 115kV	On-Line
			Sherman 115kV	On-Line
			Spearman 115kV	On-Line
			Texas County 115kV	On-Line
Blue Canyon II	153	WFEC	Washita 138kV (GEN-2003-004)	On-Line
			Washita 138kV (GEN-2004-023)	On-Line
			Washita 138kV (GEN-2005-003)	On-Line
Montezuma	110	MKEC	Haggard 115kV	On-Line
GROUPED TOTAL	17,319.2			

* Planned Facility

C: Study Groupings

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2001-014	96	WFEC	Fort Supply 138kV
	GEN-2001-037	100	OKGE	Windfarm Switching 138kV
	GEN-2002-005	120	WFEC	Tap Morewood - Elk City 138kV
	GEN-2005-005	18	OKGE	Windfarm Tap 138kV
	GEN-2005-008	120	OKGE	Woodward 138kV
	GEN-2006-024	20	WFEC	South Buffalo Tap 69kV
	GEN-2006-046	131	OKGE	Dewey 138kV
	GEN-2007-006	160	OKGE	Roman Nose 138kV
	GEN-2007-021	201	OKGE	*Tatonga 345kV
	GEN-2007-044	300	OKGE	*Tatonga 345kV
	GEN-2007-050	170	OKGE	*Woodward 138kV
	GEN-2007-051	200	WFEC	Mooreland 138kV
	GEN-2007-062	765	OKGE	*Woodward 345kV
	GEN-2008-003	101	OKGE	*Woodward EHV 138kV
GEN-2008-019	300	OKGE	*Tatonga 345kV	
PRIOR QUEUED SUBTOTAL		2,802		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
Woodward	GEN-2008-029	250.5	OKGE	WOODWARD EHV 138kV
WOODWARD SUBTOTAL		250.5		
AREA SUBTOTAL		3,052.5		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	SPS Distribution	90	SPS	Various
	GEN-2002-006	150	SPS	Texas County 115kV
	GEN-2002-008	240	SPS	*Hitchland 345kV
	GEN-2002-009	80	SPS	Hansford County 115kV
	GEN-2003-013	198	SPS	*Tap Hitchland - Finney 345kV
	GEN-2003-020	160	SPS	Martin 115kV
	GEN-2005-017	340	SPS	*Tap Hitchland - Potter County 345kV
	GEN-2006-020	18.9	SPS	DWS Frisco Tap
	GEN-2006-044	370	SPS	*Hitchland 345kV
	GEN-2006-049	400	SPS	*Tap Hitchland - Finney 345kV
	GEN-2007-005	200	SPS	Pringle 115kV
	GEN-2007-046	200	SPS	*Hitchland 115kV
	GEN-2007-057	35	SPS	Moore County East 115kV
PRIOR QUEUED SUBTOTAL		2,481.9		
AREA SUBTOTAL		2,481.9		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	Montezuma	110	MKEC	Haggard 115kV
	GEN-2001-039A	105	WPEK	Tap Greensburg - Judson-Large 115kV
	GEN-2002-025A	150	WPEK	Spearville 230kV
	GEN-2004-014	155	MIDW	Spearville 230kV
	GEN-2005-012	250	WPEK	Spearville 345kV
	GEN-2006-006	206	MKEC	Spearville 230kV
	GEN-2006-021	101	WPEK	Flat Ridge Tap 138kV
	GEN-2006-022	150	WPEK	Ninnescah Tap 115kV
	GEN-2007-038	200	SUNC	Spearville 345kV
GEN-2008-018	405	SUNC	Finney 345kV	
PRIOR QUEUED SUBTOTAL		1,832		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
Spearville	GEN-2007-040	200	SUNC	Tap Holcomb – Spearville 345kV
	GEN-2008-079	100.5	MKEC	Tap Judson Large – Cudahy 115kV
	GEN-2008-124	200.1	SUNC	Spearville 230kV
SPEARVILLE SUBTOTAL		500.6		
AREA SUBTOTAL		2,332.6		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2001-039M	100	SUNC	Tap Leoti - City Services 115kV
	GEN-2006-034	81	SUNC	Tap Kanarado - Sharon Springs 115kV
	GEN-2006-040	108	SUNC	Mingo 115kV
	GEN-2007-011	135	SUNC	Syracuse 115kV
	GEN-2007-013	99	SUNC	Selkirk 115kV
	GEN-2008-017	300	SUNC	Setab 345kV
PRIOR QUEUED SUBTOTAL		823		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
Mingo	GEN-2008-025	101.2	SUNC	Ruleton 115kV
MINGO/NW KANSAS SUBTOTAL		101.2		
AREA SUBTOTAL		924.2		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	Llano Estacado	80	SPS	Llano Estacado Tap 115kV
	GEN-2002-022	240	SPS	Bushland 230kV
	GEN-2005-021	86	SPS	Kirby 115kV
	GEN-2006-039	400	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV
	GEN-2006-045	240	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV
	GEN-2006-047	240	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV
	GEN-2007-002	160	SPS	Grapevine 115kV
	GEN-2007-048	400	SPS	Tap Amarillo South – Swisher 230kV
PRIOR QUEUED SUBTOTAL		1,846		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
Amarillo	GEN-2008-051	322	SPS	Potter 345kV
AMARILLO SUBTOTAL		322		
AREA SUBTOTAL		2,168		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2001-033	180	SPS	San Juan Mesa Tap 230kV
	GEN-2001-036	80	SPS	Norton 115kV
	GEN-2005-010	160	SPS	Tap Roosevelt County - Tolk West 230kV (Single Ckt Tap)
	GEN-2005-015	150	SPS	Tap TUCO - Oklaunion 345kV
	GEN-2007-034	150	SPS	Tap Eddy – Tolk 345kV
	GEN-2008-008	60	SPS	Graham 115kV
	GEN-2008-009	60	SPS	San Juan Mesa Tap 230kV
	GEN-2008-014	150	SPS	Tap Tuco – Oklaunion 345kV
	GEN-2008-016	248	SPS	Grassland 230kV
PRIOR QUEUED SUBTOTAL		1,238		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
S Pandle	GEN-2009-017	151.8	SPS	Tap Pembroke – Stiles 138kV
SOUTH PANHANDLE/NM SUBTOTAL		151.8		
AREA SUBTOTAL		1,389.8		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2001-026	74	WFEC	Washita 138kV
	GEN-2003-004	101	WFEC	Washita 138kV
	GEN-2003-005	100	WFEC	Anadarko - Paradise 138kV
	GEN-2003-022	120	AEPW	Washita 138kV
	GEN-2004-020	27	AEPW	Washita 138kV
	GEN-2004-023	21	WFEC	Washita 138kV
	GEN-2005-003	31	WFEC	Washita 138kV
	GEN-2006-002	150	AEPW	Grapevine - Elk City 230kV
	GEN-2006-035	225	AEPW	Grapevine - Elk City 230kV
	GEN-2006-043	99	AEPW	Grapevine - Elk City 230kV
	GEN-2007-032	150	WFEC	Tap Clinton Junction – Clinton 138kV
	GEN-2007-043	300	AEPW	Tap Lawton Eastside – Cimarron 345kV
	GEN-2007-052	150	WFEC	Anadarko 138kV
PRIOR QUEUED SUBTOTAL		1,548		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
SW Oklahoma	GEN-2008-023	150	AEPW	Hobart Junction 138kV
	GEN-2009-016	140	AEPW	Falcon Road 138kV
SW OKLAHOMA SUBTOTAL		190		
AREA SUBTOTAL		1738		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	AECI-4	150	AECI	Tap Fairfax – Fairfax Tap 138kV
	AECI-6	200	AECI	Tap Fairfax- Fairfax Tap 138kV
	GEN-2002-004	200	WERE	Latham 345kV
	GEN-2004-010	300	WERE	Latham 345kV
	GEN-2005-013	201	WERE	Tap Latham - Neosho
	GEN-2005-016	150	WFEC	Tap Latham - Neosho
	GEN-2007-025	300	WERE	Tap Woodring – Wichita 345kV
GEN-2008-013	300	OKGE	Tap Woodring – Wichita 345kV	
PRIOR QUEUED SUBTOTAL		1,801		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
North Oklahoma	GEN-2008-021	42	WERE	Wolf Creek 345kV
	GEN-2008-038	144	AEPW	Tap Shidler – West Pawhuska 138kV
	GEN-2008-127	200.1	WERE	Tap Sooner – Rose Hill 345kV
	GEN-2009-025	60	OKGE	Kay Coop 69kV
North OKLAHOMA SUBTOTAL		446.1		
AREA SUBTOTAL		2,247.1		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	Genoa	4	NPPD	Genoa 115kV
	GEN-2006-020N	42	NPPD	Bloomfield 115kV
	GEN-2006-038N019	80	NPPD	Petersburg 115kV
	GEN-2007-011N08	81	NPPD	Bloomfield 115kV
PRIOR QUEUED SUBTOTAL		207		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
NE Nebraska	GEN-2006-044N	40.5	NPPD	Tap Neligh – Petersburg 115kV
	GEN-2007-011N06	75	NPPD	Tap Neligh – Petersburg 115kV
	GEN-2007-011N09	75	NPPD	Bloomfield 115kV
	GEN-2008-086N02	200	NPPD	Tap Ft. Randall - Columbus
NE NEBRASKA SUBTOTAL		390.5		
AREA SUBTOTAL		597.5		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	Broken Bow	8.3	NPPD	Broken Bow 115kV
	Ord	13.9	NPPD	Bloomfield 115kV
	Stuart	2.1	NPPD	Petersburg 115kV
	Ainsworth	75	NPPD	Ainsworth Wind Tap 115kV
	GEN-2004-005N	30	NPPD	St. Francis 115kV
	GEN-2006-038N05	80	NPPD	Broken Bow 115kV
PRIOR QUEUED SUBTOTAL		209.3		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
NORTH NEBRASKA	GEN-2006-037N1	75	NPPD	Broken Bow 115kV
NORTH NEBRASKA SUBTOTAL		75		
AREA SUBTOTAL		284.3		

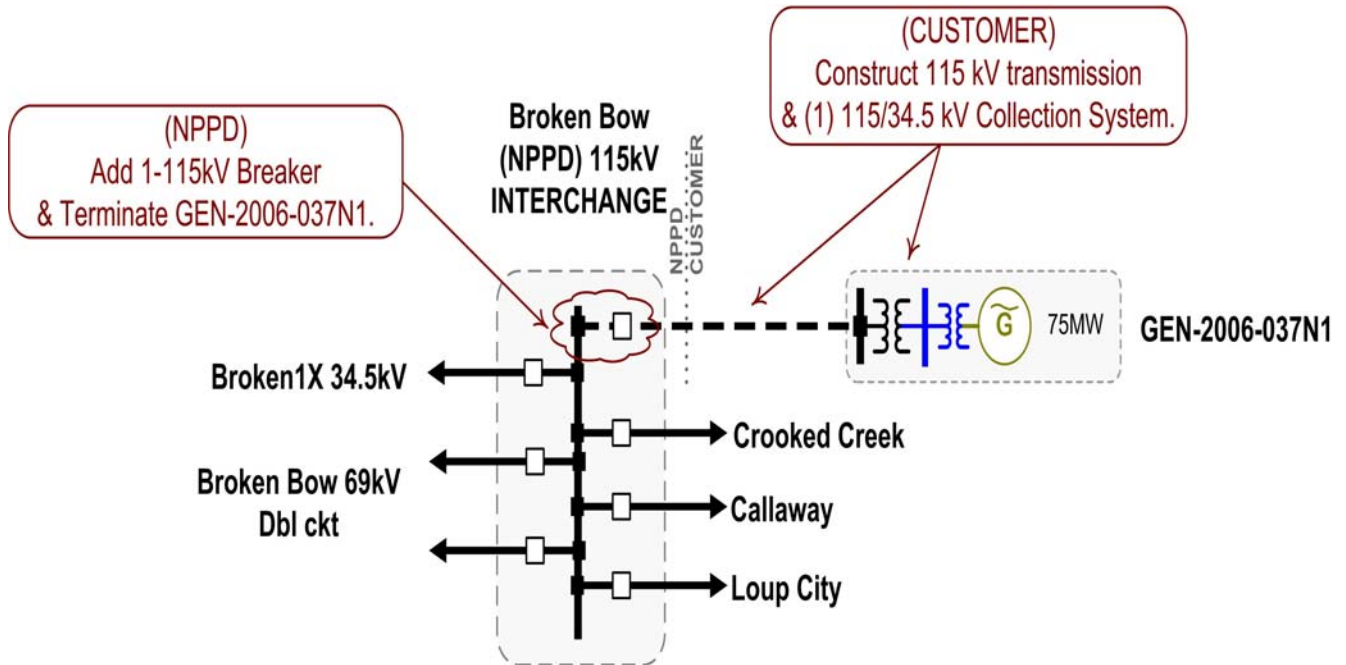
Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2003-006A-E	100	EMDE	Elm Creek 230kV
	GEN-2003-006A-W	100	WERE	Elm Creek 230kV
	GEN-2003-019	250	MIDW	Smoky Hills Tap 230kV
	GEN-2006-031	75	MIDW	Knoll 115kV
	GEN-2006-032	200	MIDW	South Hays 230kV
PRIOR QUEUED SUBTOTAL		725		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
North Kansas	GEN-2008-092	201	MIDW	Knoll 115kV
	GEN-2009-011	50	MKEC	Tap Plainville – Phillipsburg 115kV
NORTH KANSAS SUBTOTAL		251		
AREA SUBTOTAL		976		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	AECI-1	400	AECI	Tap Cooper – Fairport 345kV
	AECI-2	99	AECI	Lathrop 161kV
	AECI-3	201	AECI	Osborn 161kV
	AECI-5	100	AECI	Maryville 161kV
	GEN-2006-014	300	MIPU	Tap Maryville – Clarinda 161kV
	GEN-2006-017	300	MIPU	Tap Maryville – Clarinda 161kV
	GEN-2007-015	135	WERE	Tap Humboldt – Kelly 161kV
	GEN-2007-017	101	MIPU	Tap Maryville – Clarinda 161kV
	GEN-2007-053	110	MIPU	Tap Maryville – Clarinda 161kV
	GEN-2008-1190	60	OPPD	Tap Humboldt – Kelly 161kV
PRIOR QUEUED SUBTOTAL		1,806		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
NW Missouri	GEN-2008-129	80	MIPU	Pleasant Hill 161kV
KANSAS CITY KANSAS SUBTOTAL		80		
AREA SUBTOTAL		1,886		
***CLUSTERED TOTAL (w/o PRIOR QUEUED)		2,858.7		
***CLUSTERED TOTAL (w/PRIOR QUEUED)		20,509.4		

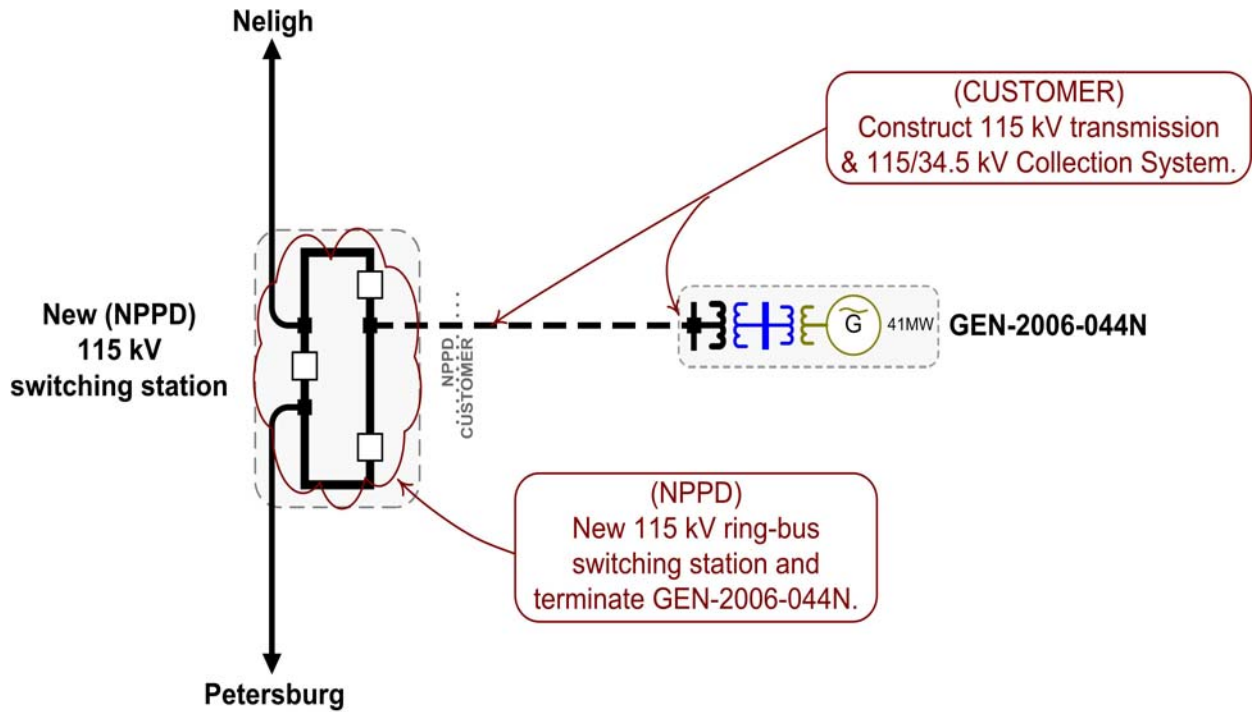
* Planned Facility
 ^ Proposed Facility
 ** Alternate requests - counted as one request for study purpose
 *** Electrically Remote Interconnection Requests included in total

D: Proposed Point of Interconnection One line Diagrams

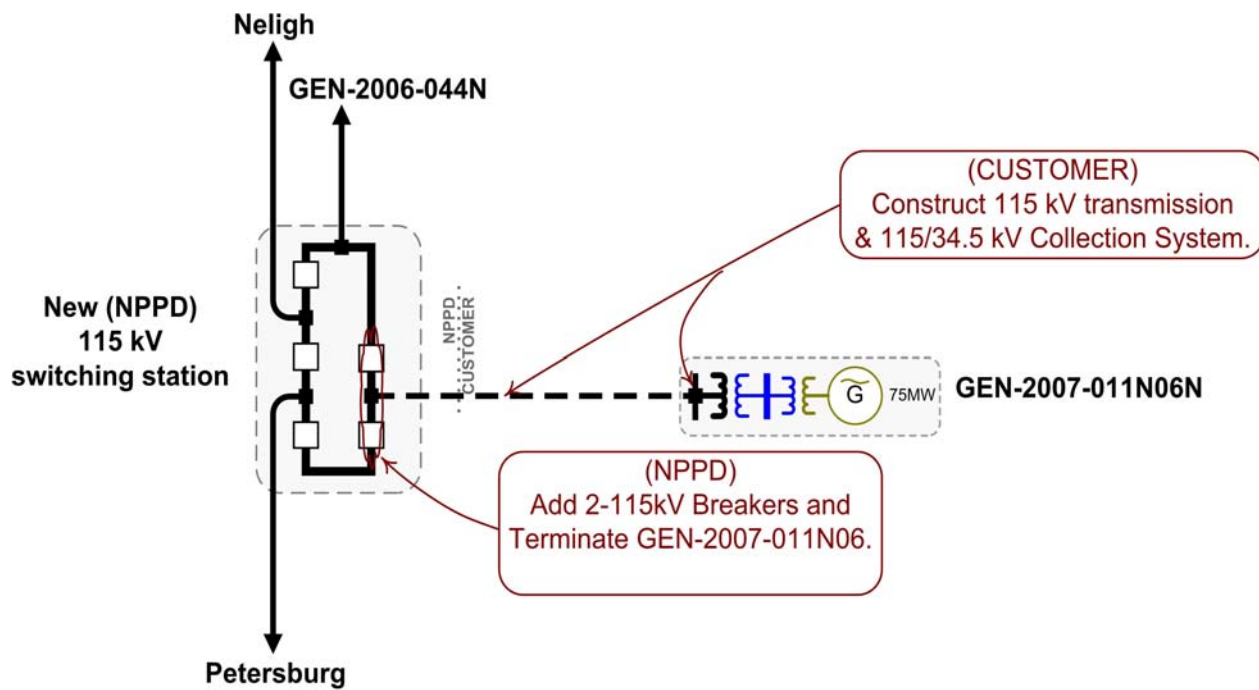
GEN-2006-037N1



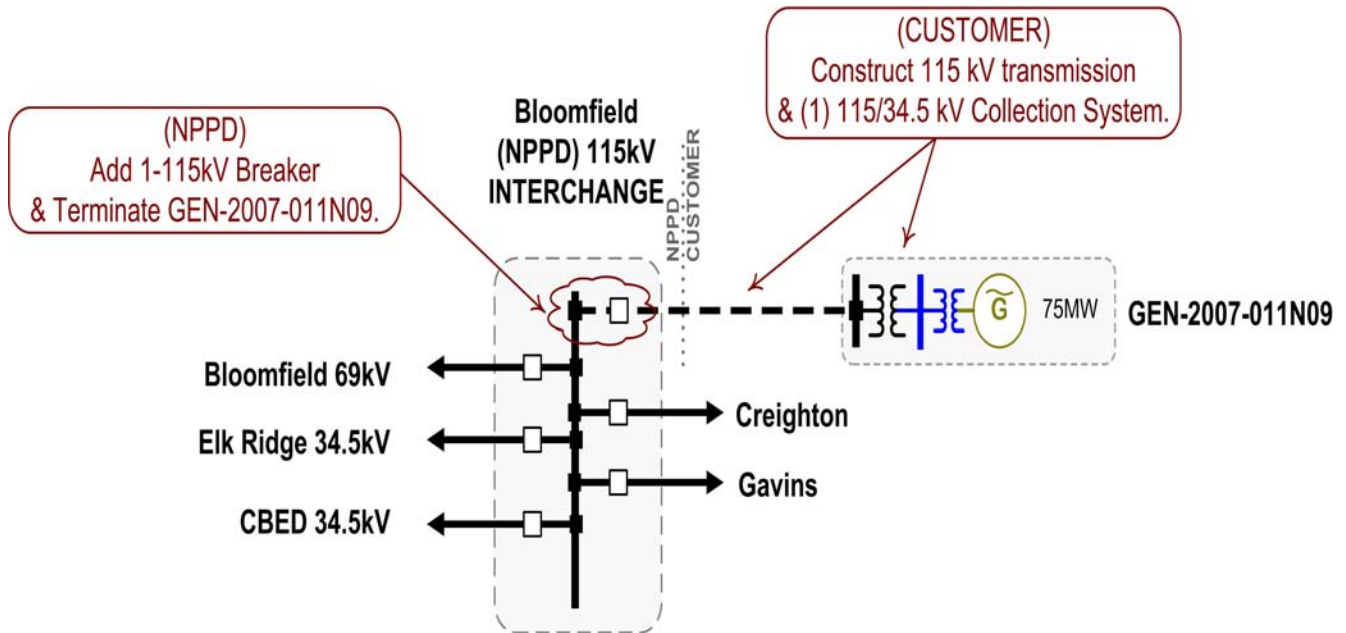
GEN-2006-044N



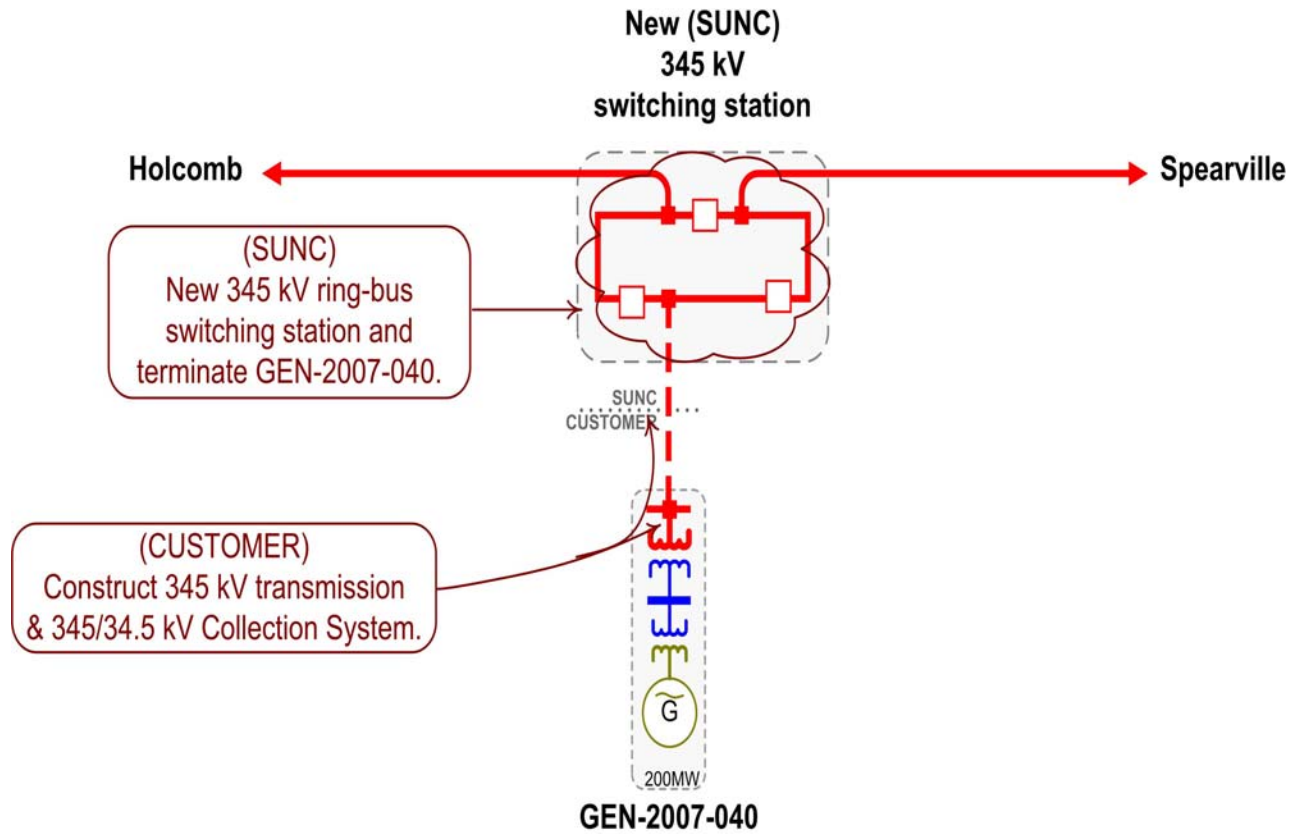
GEN-2007-011N06



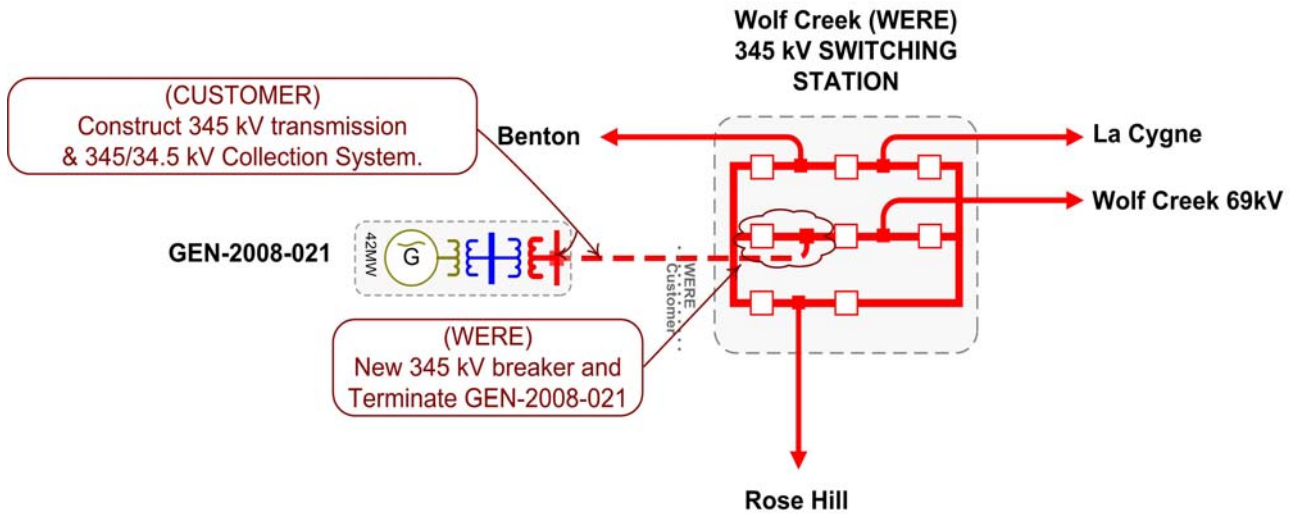
GEN-2007-011N09



GEN-2007-040

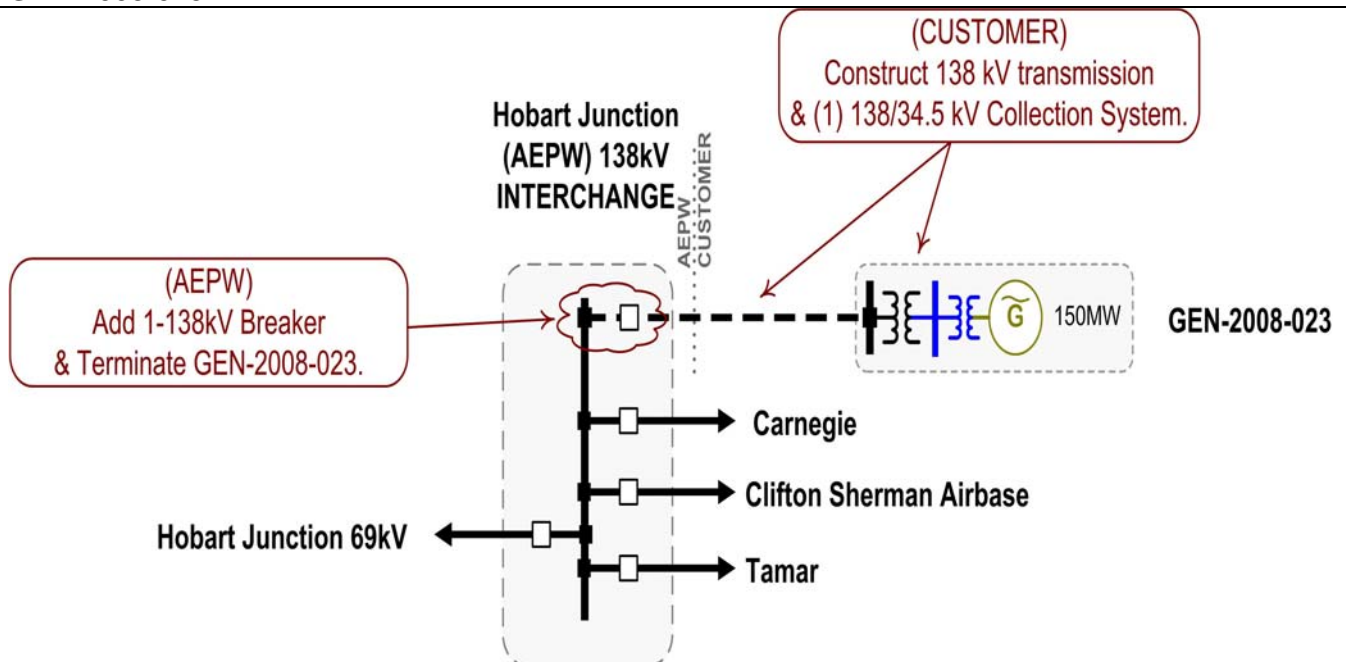


GEN-2008-021

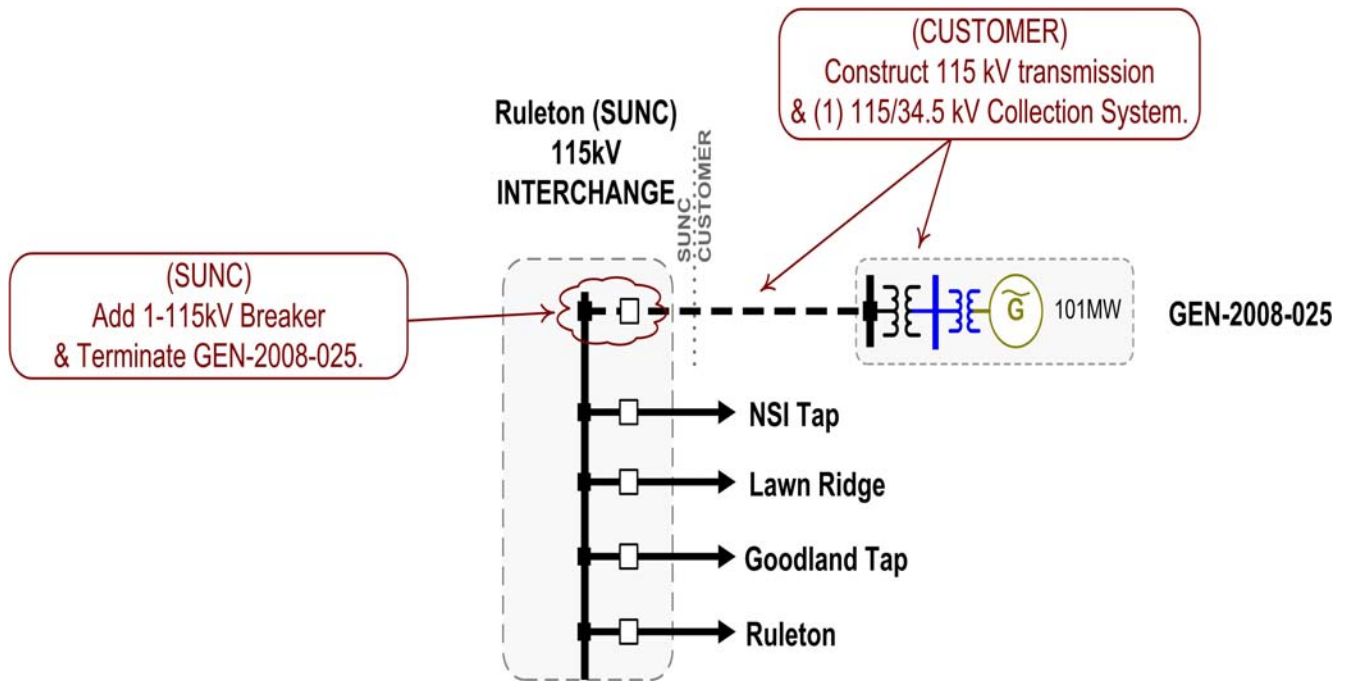


* Planned ^ Proposed

GEN-2008-023

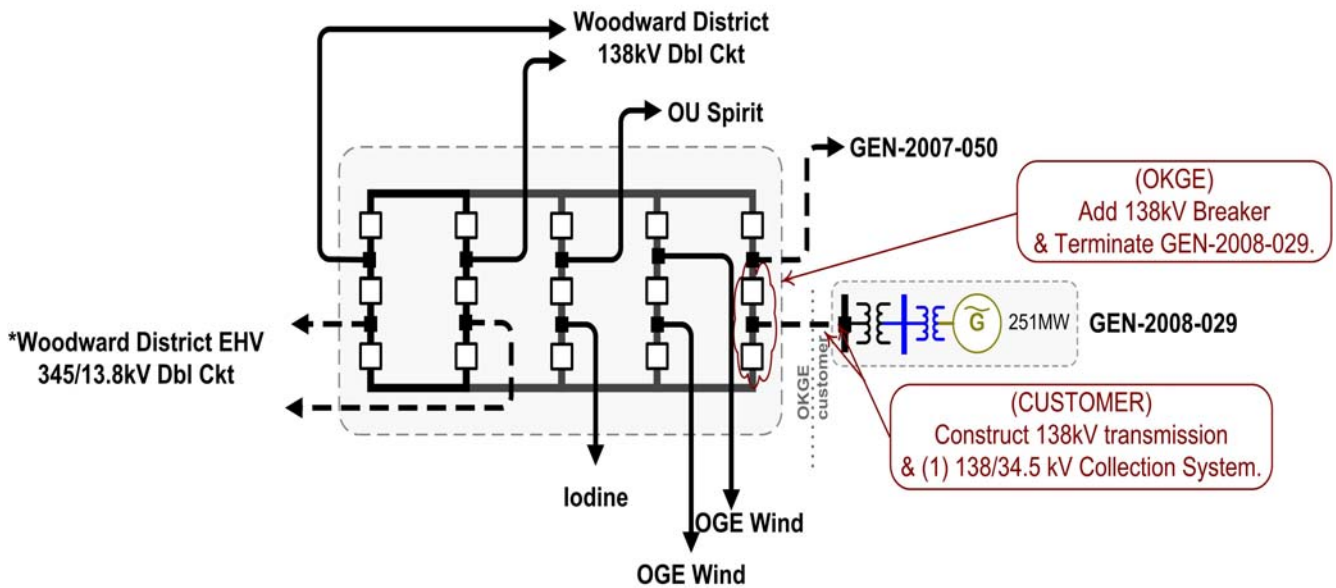


GEN-2008-025



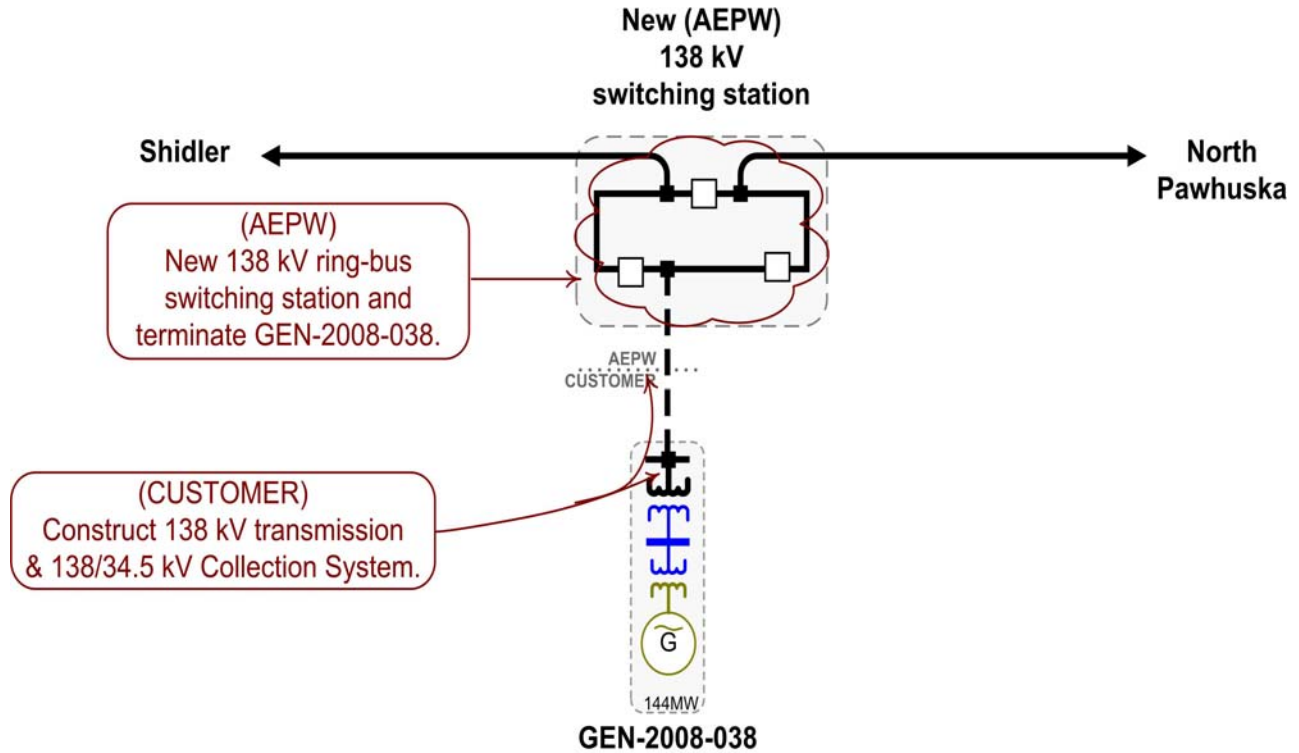
GEN-2008-029

New *Woodward District EHV (OKGE) 138kV Switching Station

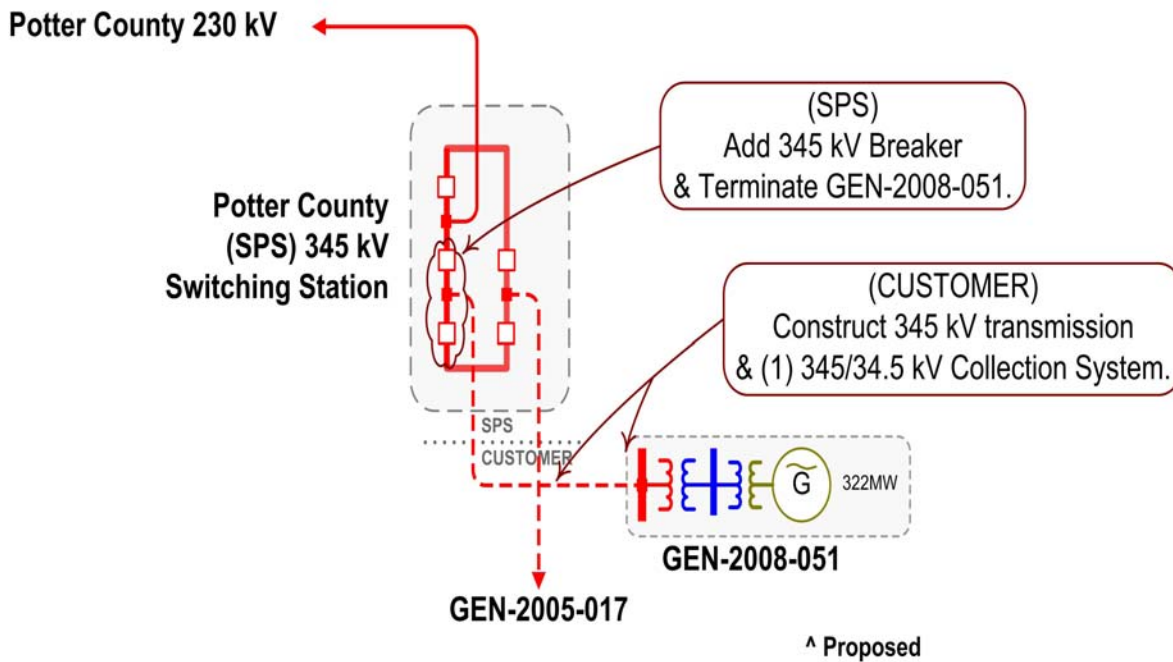


* Planned

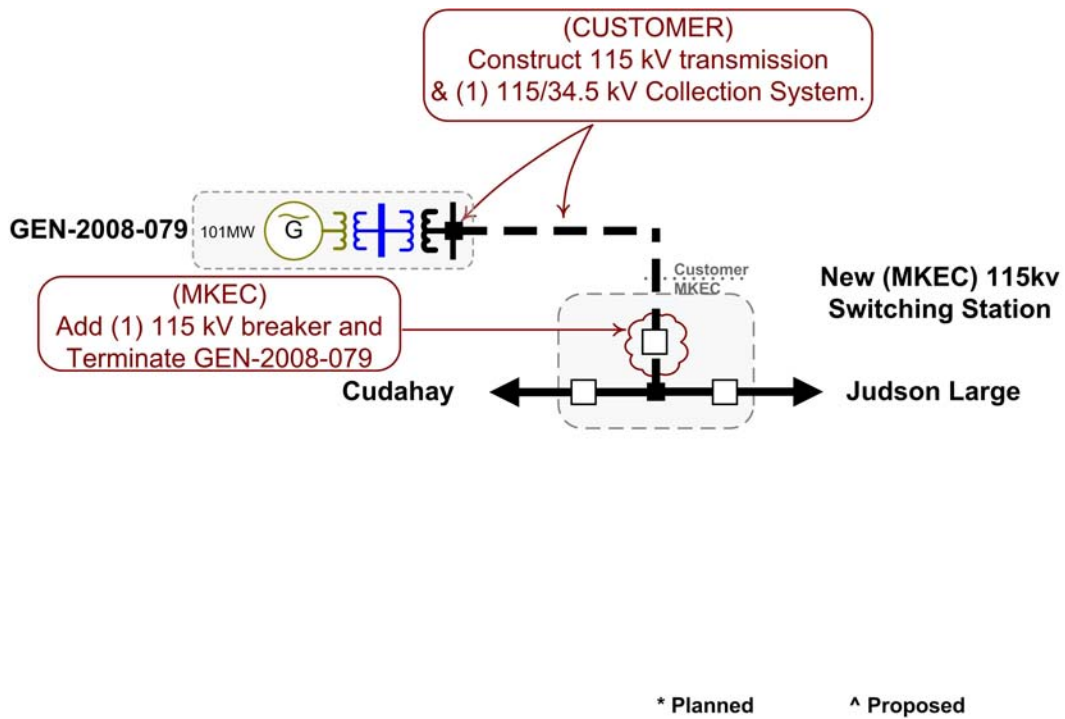
GEN-2008-038



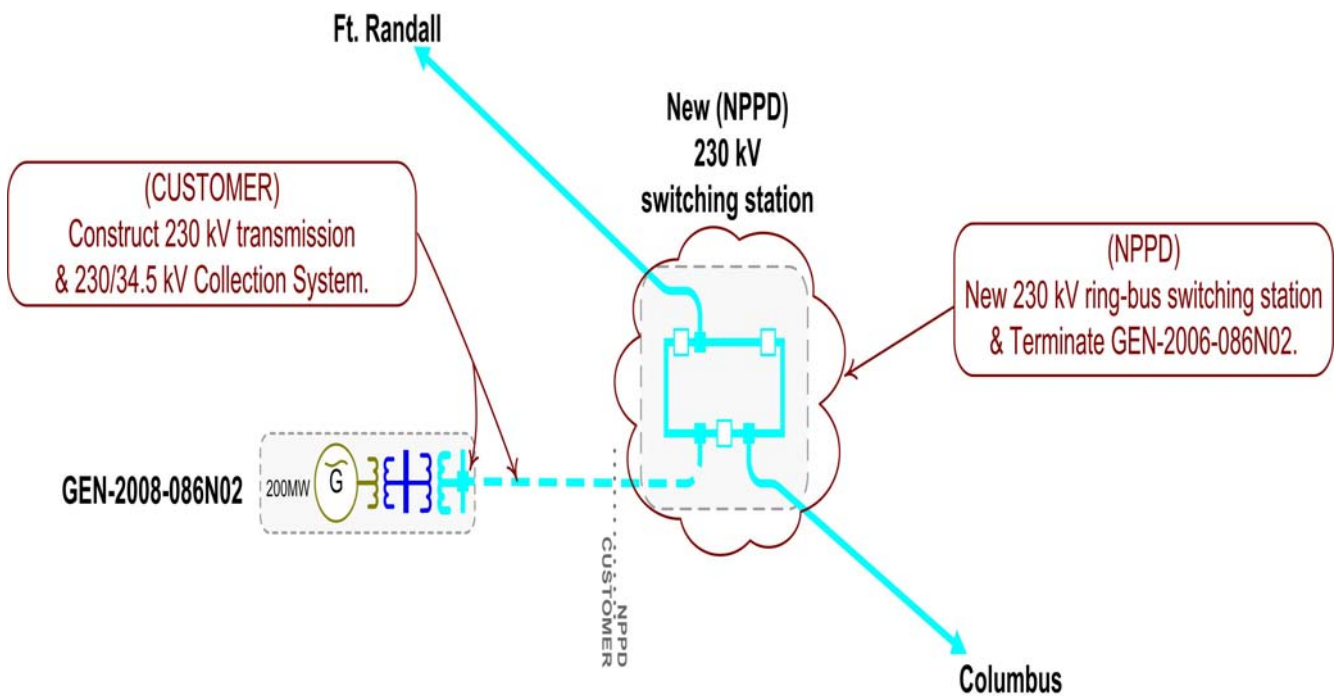
GEN-2008-051



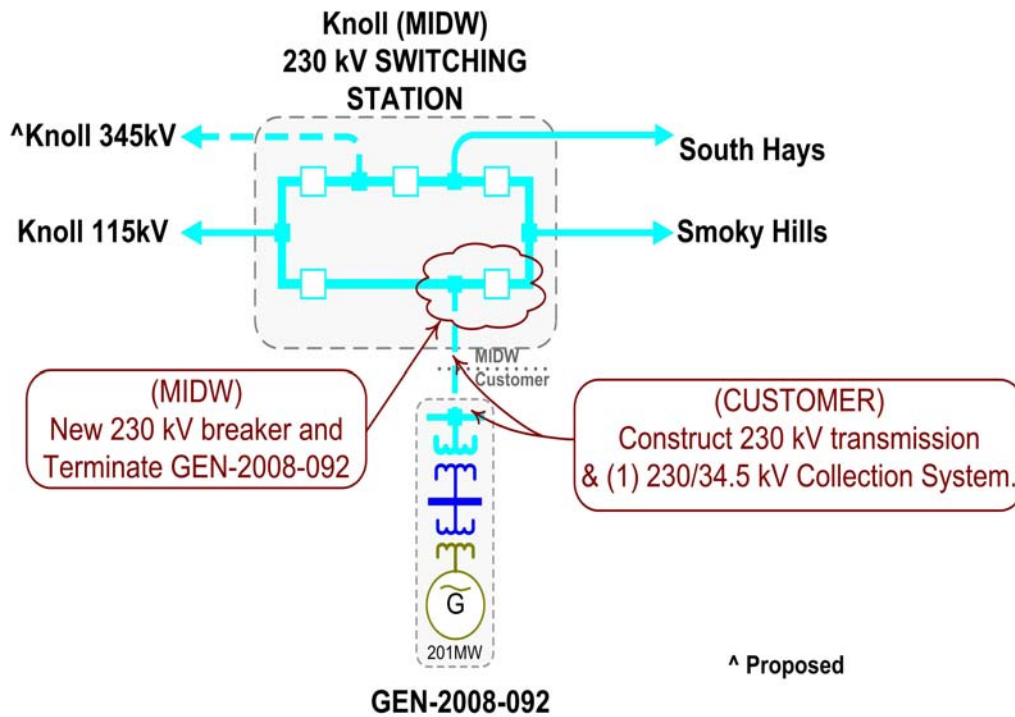
GEN-2008-079



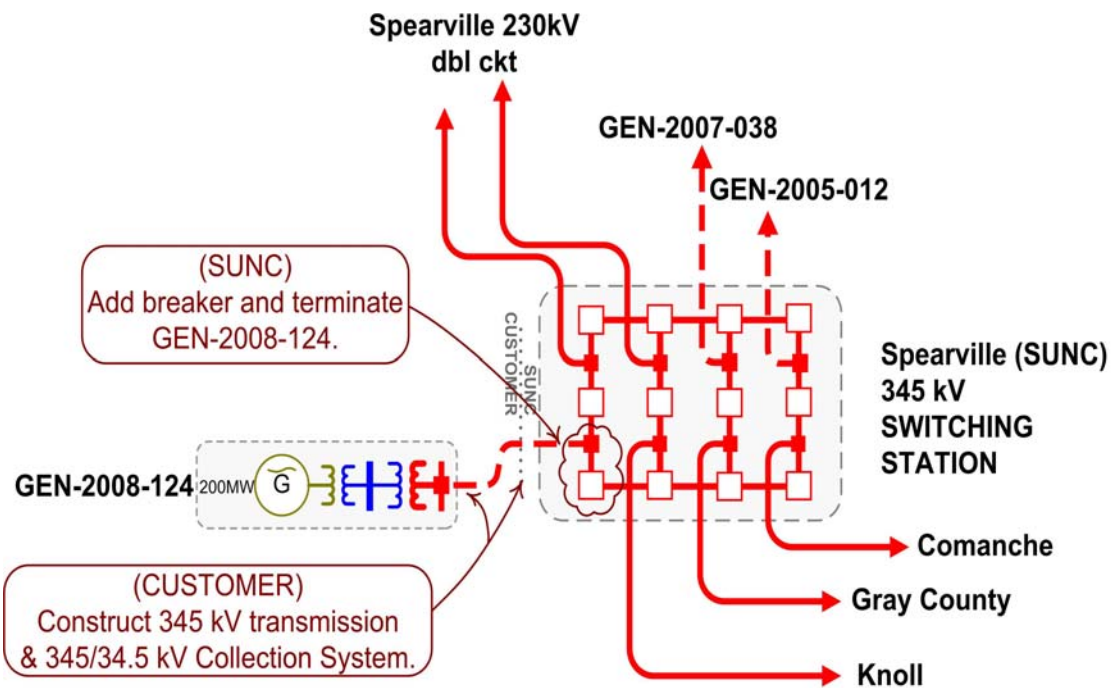
GEN-2008-086N02



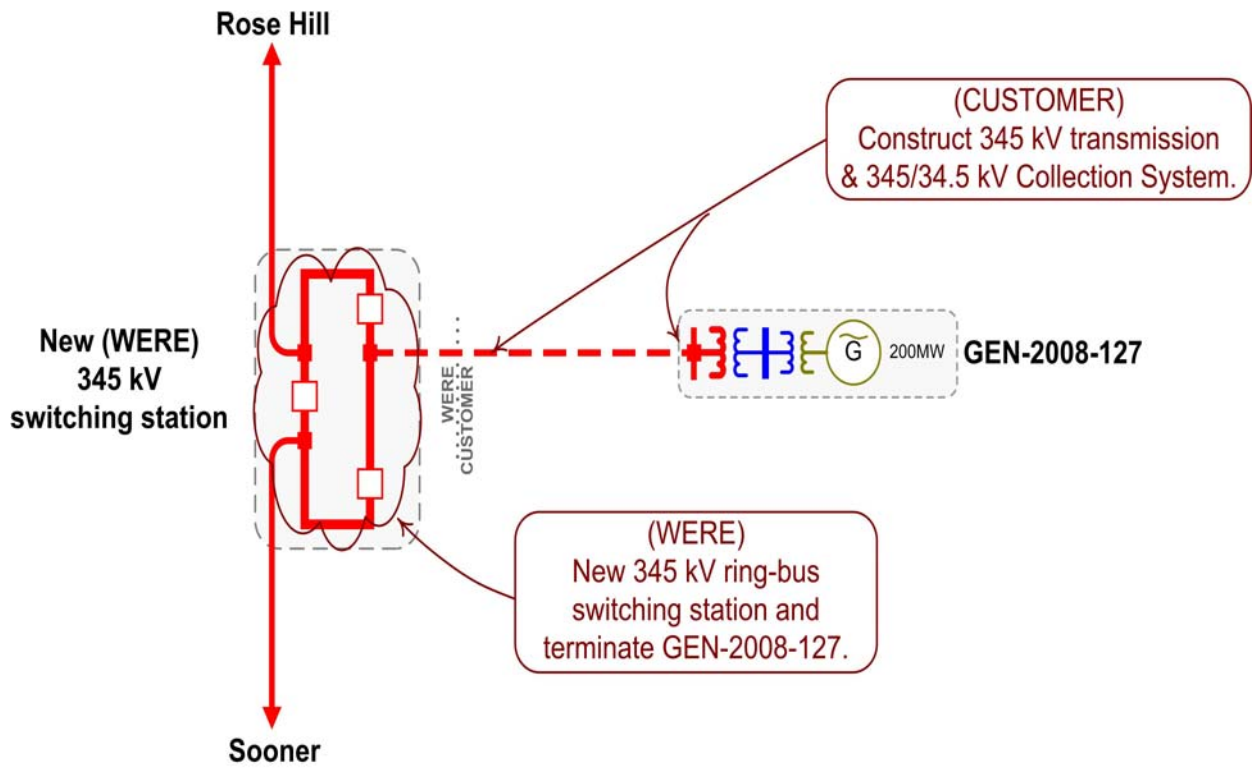
GEN-2008-092



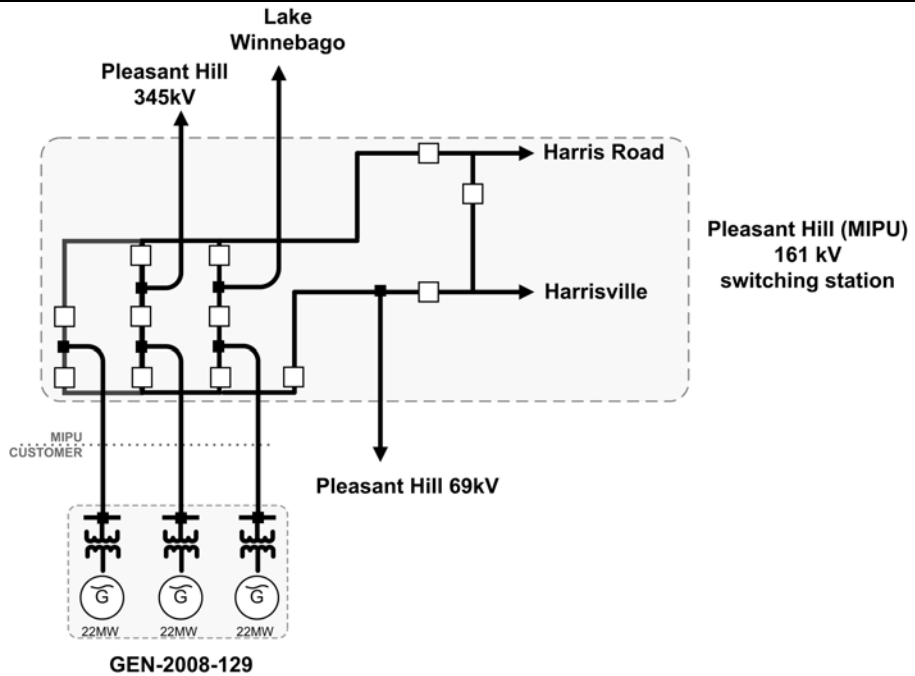
GEN-2008-124



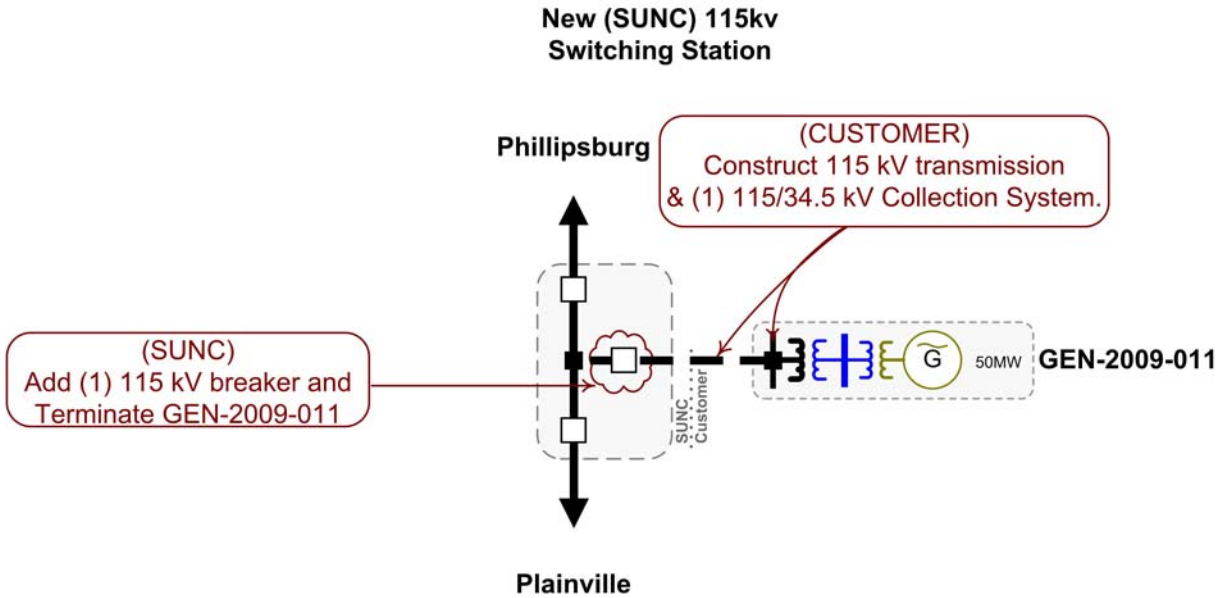
GEN-2008-127



GEN-2008-129

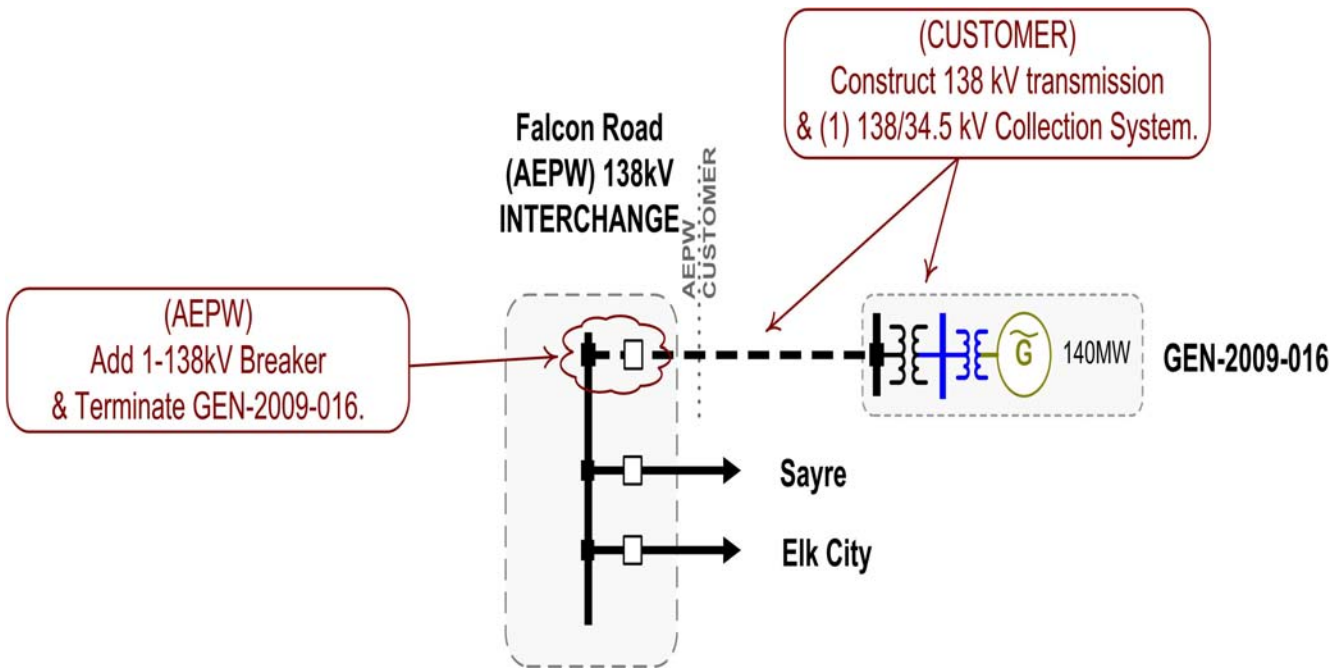


GEN-2009-011



* Planned ^ Proposed

GEN-2009-016

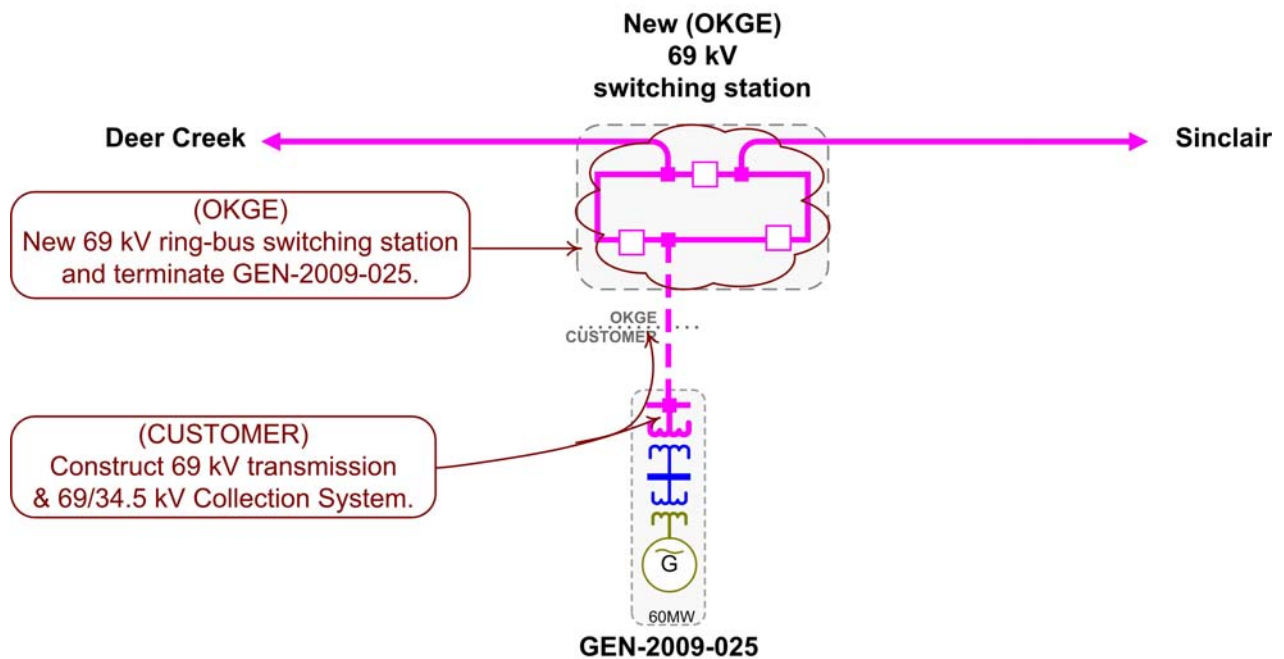


D-10

GEN-2009-017

GEN-2009-017 to be posted separately

GEN-2009-025



E: Cost Allocation per Interconnection Request

This section shows each Generation Interconnection Request Customer and their Direct Assigned Facilities and Network Upgrades upon which they have an impact in this study assuming all prior 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 F for more details.

Appendix E. - Cost Allocation Per Request

(Including Previously Allocated Network Upgrades*)

Interconnection Request	Upgrade Type	Allocated Costs	E + C Costs
GEN-2006-037N01			
GEN-2006-037N1 Interconnection Costs See Online Diagram	Current Study Allocation	\$1,000,000.00	\$1,000,000.00
	Current Study Total	\$1,000,000.00	
GEN-2006-044N			
GEN-2006-044N Interconnection Costs See Online Diagram	Current Study Allocation	\$1,500,000.00	\$1,500,000.00
Petersburg - Madison 115KV CKT 1 Construct approximately 35 miles of new 115kV	Current Study Allocation	\$9,007,485.76	\$28,000,000.00
Belden - Bloomfield 115KV CKT 1 Construct approximately 45 miles of new 115kV	Current Study Allocation	\$1,158,748.48	\$18,000,000.00
	Current Study Total	\$11,666,234.24	
GEN-2007-011N06			
GEN-2007-011N06 Interconnection Costs See Online Diagram	Current Study Allocation	\$1,000,000.00	\$1,000,000.00
Petersburg - Madison 115KV CKT 1 Construct approximately 35 miles of new 115kV	Current Study Allocation	\$16,477,108.09	\$28,000,000.00
Belden - Bloomfield 115KV CKT 1 Construct approximately 45 miles of new 115kV	Current Study Allocation	\$2,119,661.85	\$18,000,000.00
	Current Study Total	\$19,596,769.94	
GEN-2007-011N09			
GEN-2007-011N09 Interconnection Costs See Online Diagram	Current Study Allocation	\$1,000,000.00	\$1,000,000.00
Belden - Bloomfield 115KV CKT 1 Construct approximately 45 miles of new 115kV	Current Study Allocation	\$14,721,589.67	\$18,000,000.00
Petersburg - Madison 115KV CKT 1 Construct approximately 35 miles of new 115kV	Current Study Allocation	\$2,515,406.15	\$28,000,000.00
	Current Study Total	\$18,236,995.82	
GEN-2007-040			
GEN-2007-040 Interconnection Costs See Online Diagram	Current Study Allocation	\$6,200,000.00	\$6,200,000.00
Stevens County - Gray County 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$70,907,000.00
Spearville - Comanche 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$58,500,000.00
Medicine Lodge - Wichita 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$90,000,000.00
Comanche - Medicine Lodge 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$62,900,000.00

* Current Study Requests' Costs of Previously Allocated Network Upgrades will be determined by a restudy, if necessary.

Interconnection Request	Upgrade Type	Allocated Costs	E + C Costs
Knoll - Spearville 345KV CKT 1 Total E & C Cost for Spearville-Knoll-Axtell Project	Previously Allocated		\$236,000,000.00
Comanche - Woodward 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$104,224,853.00
Axtell - Knoll 345KV CKT 1 Total E & C Cost for Spearville-Knoll-Axtell Project	Previously Allocated		\$236,000,000.00
Hitchland-Woodward 345kv CKT 1	Previously Assigned		\$93,000,000.00
	Current Study Total	\$6,200,000.00	
GEN-2008-023			
GEN-2008-023 Interconnection Costs See Online Diagram	Current Study Allocation	\$1,038,000.00	\$1,038,000.00
Clinton Junction - Elk City 138KV CKT 1 Replace terminal equipment	Current Study Allocation	\$46,638.70	\$150,000.00
	Current Study Total	\$1,084,638.70	
GEN-2008-025			
GEN-2008-025 Interconnection Costs See Online Diagram	Current Study Allocation	\$850,000.00	\$850,000.00
Spearville - Comanche 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$58,500,000.00
Comanche - Woodward 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$104,224,853.00
Medicine Lodge - Wichita 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$90,000,000.00
Comanche - Medicine Lodge 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$62,900,000.00
Central Plains - Setab 115KV CKT 1 Per GEN-2007-013 Facility Study	Previously Allocated		\$4,800,000.00
	Current Study Total	\$850,000.00	
GEN-2008-029			
GEN-2008-029 Interconnection Costs See Online Diagram	Current Study Allocation	\$4,610,000.00	\$4,610,000.00
Comanche - Woodward 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$104,224,853.00
Comanche - Medicine Lodge 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$62,900,000.00
Medicine Lodge - Wichita 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$90,000,000.00
Midpoint(Wheeler) - Woodward 345KV CKT 1 Total E & C Cost for TUCO - Woodward Project	Previously Allocated		\$229,000,000.00
Knoll - Spearville 345KV CKT 1 Total E & C Cost for Spearville-Knoll-Axtell Project	Previously Allocated		\$236,000,000.00
Axtell - Knoll 345KV CKT 1 Total E & C Cost for Spearville-Knoll-Axtell Project	Previously Allocated		\$236,000,000.00

* Current Study Requests' Costs of Previously Allocated Network Upgrades will be determined by a restudy, if necessary.

Interconnection Request

Upgrade Type

Allocated Costs

E + C Costs

		Current Study Total	\$4,610,000.00
GEN-2008-038			
GEN-2008-038 Interconnection Costs See Online Diagram	Current Study Allocation	\$6,843,000.00	\$6,843,000.00
GEN-2008-038 Tap - Barnsdall (AEPW) 138KV CKT 1 Construct approximately 40 miles of new 138kV	Current Study Allocation	\$32,000,000.00	\$32,000,000.00
	Current Study Total	\$38,843,000.00	
GEN-2008-051			
GEN-2008-051 Interconnection Costs See Online Diagram	Current Study Allocation	\$2,350,000.00	\$2,350,000.00
Hitchland-Woodward 345kV CKT 1	Previously Assigned		\$93,000,000.00
Comanche - Medicine Lodge 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$62,900,000.00
Medicine Lodge - Wichita 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$90,000,000.00
Stevens County - Gray County 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$70,907,000.00
Comanche - Woodward 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$104,224,853.00
Midpoint(Wheeler) - Woodward 345KV CKT 1 Total E & C Cost for TUCO - Woodward Project	Previously Allocated		\$229,000,000.00
	Current Study Total	\$2,350,000.00	
GEN-2008-079			
GEN-2008-079 Interconnection Costs See Online Diagram	Current Study Allocation	\$1,500,000.00	\$1,500,000.00
Judson Large - North Judson Large 115KV CKT 2 Construct approximately 1 mile of new 115kV for 2nd circuit	Current Study Allocation	\$400,000.00	\$400,000.00
North Judson Large - Spearville 115KV CKT 2 Construct approximately 15 miles of new 115kV for 2nd circuit	Current Study Allocation	\$6,000,000.00	\$6,000,000.00
Stevens County - Gray County 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$70,907,000.00
Spearville - Comanche 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$58,500,000.00
Spearville (SPEARVL2) 345/230/13.8KV Transformer CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$6,400,000.00
Comanche - Woodward 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$104,224,853.00
Medicine Lodge - Wichita 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$90,000,000.00
Comanche - Medicine Lodge 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$62,900,000.00
Knoll - Spearville 345KV CKT 1 Total E & C Cost for Spearville-Knoll-Axtell Project	Previously Allocated		\$236,000,000.00

* Current Study Requests' Costs of Previously Allocated Network Upgrades will be determined by a restudy, if necessary.

Interconnection Request	Upgrade Type	Allocated Costs	E + C Costs
Axtell - Knoll 345KV CKT 1 Total E & C Cost for Spearville-Knoll-Axtell Project	Previously Allocated		\$236,000,000.00
	Current Study Total	\$7,900,000.00	
GEN-2008-086N02			
GEN-2008-086N02 Interconnection Costs See Online Diagram	Current Study Allocation	\$3,500,000.00	\$3,500,000.00
	Current Study Total	\$3,500,000.00	
GEN-2008-092			
GEN-2008-092 Interconnection Costs See Online Diagram	Current Study Allocation	\$2,000,000.00	\$2,000,000.00
Spearville - Comanche 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$58,500,000.00
Axtell - Knoll 345KV CKT 1 Total E & C Cost for Spearville-Knoll-Axtell Project	Previously Allocated		\$236,000,000.00
Comanche - Woodward 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$104,224,853.00
Medicine Lodge - Wichita 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$90,000,000.00
Comanche - Medicine Lodge 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$62,900,000.00
	Current Study Total	\$2,000,000.00	
GEN-2008-124			
GEN-2008-124 Interconnection Costs See Online Diagram	Current Study Allocation	\$3,000,000.00	\$3,000,000.00
Stevens County - Gray County 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$70,907,000.00
Spearville - Comanche 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$58,500,000.00
Comanche - Woodward 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$104,224,853.00
Knoll - Spearville 345KV CKT 1 Total E & C Cost for Spearville-Knoll-Axtell Project	Previously Allocated		\$236,000,000.00
Medicine Lodge - Wichita 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$90,000,000.00
Comanche - Medicine Lodge 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$62,900,000.00
Axtell - Knoll 345KV CKT 1 Total E & C Cost for Spearville-Knoll-Axtell Project	Previously Allocated		\$236,000,000.00
	Current Study Total	\$3,000,000.00	
GEN-2008-127			
GEN-2008-127 Interconnection Costs See Online Diagram	Current Study Allocation	\$10,368,000.00	\$10,368,000.00
	Current Study Total	\$10,368,000.00	

* Current Study Requests' Costs of Previously Allocated Network Upgrades will be determined by a restudy, if necessary.

Interconnection Request	Upgrade Type	Allocated Costs	E + C Costs
GEN-2008-129			
GEN-2008-129 Interconnection Costs See Online Diagram	Current Study Allocation	\$1.00	\$1.00
KC South - Longview 161KV CKT 1 Replace terminal equipment to increase limit to conductor rating	Current Study Allocation	\$150,000.00	\$150,000.00
	Current Study Total	\$150,001.00	
GEN-2009-011			
GEN-2009-011 Interconnection Costs See Online Diagram	Current Study Allocation	\$1,500,000.00	\$1,500,000.00
Spearville - Comanche 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$58,500,000.00
Axtell - Knoll 345KV CKT 1 Total E & C Cost for Spearville-Knoll-Axtell Project	Previously Allocated		\$236,000,000.00
Comanche - Woodward 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$104,224,853.00
	Current Study Total	\$1,500,000.00	
GEN-2009-016			
GEN-2009-016 Interconnection Costs See Online Diagram	Current Study Allocation	\$4,530,000.00	\$4,530,000.00
Clinton Junction - Elk City 138KV CKT 1 Replace terminal equipment	Current Study Allocation	\$103,361.30	\$150,000.00
	Current Study Total	\$4,633,361.30	
GEN-2009-017			
GEN-2009-017 Interconnection Costs** See Online Diagram. **Final costs TBD by Caprock.	Current Study Allocation	\$2,000,000.00	\$2,000,000.00
Midpoint(Wheeler) - Woodward 345KV CKT 1 Total E & C Cost for TUCO - Woodward Project	Previously Allocated		\$229,000,000.00
Comanche - Woodward 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$104,224,853.00
Comanche - Medicine Lodge 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$62,900,000.00
Medicine Lodge - Wichita 345KV CKT 1 Per Cluster I Impact Restudy	Previously Allocated		\$90,000,000.00
Hitchland-Woodward 345kV CKT 1	Previously Assigned		\$93,000,000.00
	Current Study Total	\$2,000,000.00	
GEN-2009-025			
GEN-2009-025 Interconnection Costs See Online Diagram	Current Study Allocation	\$2,500,000.00	\$2,500,000.00
	Current Study Total	\$2,500,000.00	

* Current Study Requests' Costs of Previously Allocated Network Upgrades will be determined by a restudy, if necessary.

F: Cost Allocation per Proposed Study Network Upgrade

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

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

If a higher queued interconnection request (listed in Appendix B.) withdraws or terminates their LGIA the Network Upgrades assigned to the higher queued requests may be reallocated to the remaining requests that have an impact on the Network Upgrade under a restudy. The actual costs allocated to each Generation Interconnection Request Customer will be determined at the time of a restudy.

Additionally, Expansion Plan (STEP), Aggregate Study, and Balanced Portfolio assigned projects are also included in this table so that the Customer will know that interconnection service may be delayed until the completion of these projects.

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 F. - Cost Allocation Per Upgrade Facility

Upgrade Facility	Allocated Costs	E + C Costs
Belden - Bloomfield 115KV CKT 1		\$18,000,000.00
Construct approximately 45 miles of new 115kV		
GEN-2006-044N	\$1,158,748.48	
GEN-2007-011N06	\$2,119,661.85	
GEN-2007-011N09	\$14,721,589.67	
Total	\$18,000,000.00	
Clinton Junction - Elk City 138KV CKT 1		\$150,000.00
Replace terminal equipment		
GEN-2008-023	\$46,638.70	
GEN-2009-016	\$103,361.30	
Total	\$150,000.00	
GEN-2006-037N1 Interconnection Costs		\$1,000,000.00
See Online Diagram		
GEN-2006-037N01	\$1,000,000.00	
Total	\$1,000,000.00	
GEN-2006-044N Interconnection Costs		\$1,500,000.00
See Online Diagram		
GEN-2006-044N	\$1,500,000.00	
Total	\$1,500,000.00	
GEN-2007-011N06 Interconnection Costs		\$1,000,000.00
See Online Diagram		
GEN-2007-011N06	\$1,000,000.00	
Total	\$1,000,000.00	
GEN-2007-011N09 Interconnection Costs		\$1,000,000.00
See Online Diagram		
GEN-2007-011N09	\$1,000,000.00	
Total	\$1,000,000.00	
GEN-2007-040 Interconnection Costs		\$6,200,000.00
See Online Diagram		
GEN-2007-040	\$6,200,000.00	
Total	\$6,200,000.00	
GEN-2008-023 Interconnection Costs		\$1,038,000.00
See Online Diagram		
GEN-2008-023	\$1,038,000.00	
Total	\$1,038,000.00	

Upgrade Facility	Allocated Costs	E + C Costs
GEN-2008-025 Interconnection Costs See Online Diagram		\$850,000.00
GEN-2008-025	\$850,000.00	
Total	\$850,000.00	
GEN-2008-029 Interconnection Costs See Online Diagram		\$4,610,000.00
GEN-2008-029	\$4,610,000.00	
Total	\$4,610,000.00	
GEN-2008-038 Interconnection Costs See Online Diagram		\$6,843,000.00
GEN-2008-038	\$6,843,000.00	
Total	\$6,843,000.00	
GEN-2008-038 Tap - Barnsdall (AEPW) 138KV CKT 1 Construct approximately 40 miles of new 138kV		\$32,000,000.00
GEN-2008-038	\$32,000,000.00	
Total	\$32,000,000.00	
GEN-2008-051 Interconnection Costs See Online Diagram		\$2,350,000.00
GEN-2008-051	\$2,350,000.00	
Total	\$2,350,000.00	
GEN-2008-079 Interconnection Costs See Online Diagram		\$1,500,000.00
GEN-2008-079	\$1,500,000.00	
Total	\$1,500,000.00	
GEN-2008-086N02 Interconnection Costs See Online Diagram		\$3,500,000.00
GEN-2008-086N02	\$3,500,000.00	
Total	\$3,500,000.00	
GEN-2008-092 Interconnection Costs See Online Diagram		\$2,000,000.00
GEN-2008-092	\$2,000,000.00	
Total	\$2,000,000.00	
GEN-2008-124 Interconnection Costs See Online Diagram		\$3,000,000.00
GEN-2008-124	\$3,000,000.00	
Total	\$3,000,000.00	
GEN-2008-127 Interconnection Costs See Online Diagram		\$10,368,000.00

Upgrade Facility	Allocated Costs	E + C Costs
GEN-2008-127	\$10,368,000.00	
Total	\$10,368,000.00	
<hr/>		
GEN-2008-129 Interconnection Costs		\$1.00
See Online Diagram		
GEN-2008-129	\$1.00	
Total	\$1.00	
<hr/>		
GEN-2009-011 Interconnection Costs		\$1,500,000.00
See Online Diagram		
GEN-2009-011	\$1,500,000.00	
Total	\$1,500,000.00	
<hr/>		
GEN-2009-016 Interconnection Costs		\$4,530,000.00
See Online Diagram		
GEN-2009-016	\$4,530,000.00	
Total	\$4,530,000.00	
<hr/>		
GEN-2009-017 Interconnection Costs**		\$2,000,000.00
See Online Diagram. **Final costs TBD by Caprock.		
GEN-2009-017	\$2,000,000.00	
Total	\$2,000,000.00	
<hr/>		
GEN-2009-025 Interconnection Costs		\$2,500,000.00
See Online Diagram		
GEN-2009-025	\$2,500,000.00	
Total	\$2,500,000.00	
<hr/>		
Judson Large - North Judson Large 115KV CKT 2		\$400,000.00
Construct approximately 1 mile of new 115kV for 2nd circuit		
GEN-2008-079	\$400,000.00	
Total	\$400,000.00	
<hr/>		
KC South - Longview 161KV CKT 1		\$150,000.00
Replace terminal equipment to increase limit to conductor rating		
GEN-2008-129	\$150,000.00	
Total	\$150,000.00	
<hr/>		
North Judson Large - Spearville 115KV CKT 2		\$6,000,000.00
Construct approximately 15 miles of new 115kV for 2nd circuit		
GEN-2008-079	\$6,000,000.00	
Total	\$6,000,000.00	
<hr/>		
Petersburg - Madison 115KV CKT 1		\$28,000,000.00
Construct approximately 35 miles of new 115kV		
GEN-2006-044N	\$9,007,485.76	
GEN-2007-011N06	\$16,477,108.09	

Upgrade Facility	Allocated Costs	E + C Costs
GEN-2007-011N09	\$2,515,406.15	
Total	\$28,000,000.00	
Current Study Upgrades Total		\$141,989,001.00

G: ACCC Analysis (No Upgrades)

SOURCE	GROUP	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%LOADING	TDF	CONTNAME
G06_044N		9 10G	'ALBION - PETERSBURG 115KV CKT 1'	'TO->FROM'	113	113		137.5007	1 'G06-44NT 115.00 - NELIGH 115KV CKT 1'
G06_044N		9 10G	'ALBION - PETERSBURG 115KV CKT 1'	'TO->FROM'	113	113		137.5002	1 'G06-44NT 115.00 - NELIGH 115KV CKT 1'
G06_044N		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.23968	104.4606	'ALBION - PETERSBURG 115KV CKT 1'
G06_044N		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.22231	104.6627	'BATTLE CREEK - COUNTY LINE 115KV CKT 1'
G06_044N		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.22231	103.1389	'BATTLE CREEK - NORTH NORFOLK 115KV CKT 1'
G06_044N		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.22231	104.8216	'COUNTY LINE - NELIGH 115KV CKT 1'
G06_044N		9 10G	'G06-44NT 115.00 - NELIGH 115KV CKT 1'	'FROM->TO'	113	113		137.7786	1 'ALBION - PETERSBURG 115KV CKT 1'
G06_044N		9 10G	'G06-44NT 115.00 - NELIGH 115KV CKT 1'	'FROM->TO'	113	113		137.8073	1 'ALBION - PETERSBURG 115KV CKT 1'
G07_011N06		9 10G	'ALBION - PETERSBURG 115KV CKT 1'	'TO->FROM'	113	113		137.5007	1 'G06-44NT 115.00 - NELIGH 115KV CKT 1'
G07_011N06		9 10G	'ALBION - PETERSBURG 115KV CKT 1'	'TO->FROM'	113	113		137.5002	1 'G06-44NT 115.00 - NELIGH 115KV CKT 1'
G07_011N06		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.23968	104.4606	'ALBION - PETERSBURG 115KV CKT 1'
G07_011N06		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.22231	104.6627	'BATTLE CREEK - COUNTY LINE 115KV CKT 1'
G07_011N06		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.22231	103.1389	'BATTLE CREEK - NORTH NORFOLK 115KV CKT 1'
G07_011N06		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.22231	104.8216	'COUNTY LINE - NELIGH 115KV CKT 1'
G07_011N06		9 10G	'G06-44NT 115.00 - NELIGH 115KV CKT 1'	'FROM->TO'	113	113		137.7786	1 'ALBION - PETERSBURG 115KV CKT 1'
G07_011N06		9 10G	'G06-44NT 115.00 - NELIGH 115KV CKT 1'	'FROM->TO'	113	113		137.8073	1 'ALBION - PETERSBURG 115KV CKT 1'
G07_011N09		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.66645	104.4606	'ALBION - PETERSBURG 115KV CKT 1'
G07_011N09		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.68639	104.6627	'BATTLE CREEK - COUNTY LINE 115KV CKT 1'
G07_011N09		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.68639	103.1389	'BATTLE CREEK - NORTH NORFOLK 115KV CKT 1'
G07_011N09		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.99862	122.1838	'BLOOMFIELD - CREIGHTON 115KV CKT 1'
G07_011N09		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.68639	104.8216	'COUNTY LINE - NELIGH 115KV CKT 1'
G07_011N09		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.99862	108.8104	'CREIGHTON - NELIGH 115KV CKT 1'
G07_011N09		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.99862	122.18	'BLOOMFIELD - CREIGHTON 115KV CKT 1'
G07_011N09		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120	0.99862	108.8093	'CREIGHTON - NELIGH 115KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36215	110.6	'BASE CASE'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.35967	108.7092	'CLEVELAND - TULSA NORTH 345KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.56754	141.7038	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36215	113.5301	'SHIDWFC4 138.00 - WEBB CITY TAP 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.56754	136.9646	'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.3635	108.0892	'COFFEYVILLE FARMLAND - DELAWARE 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36139	108.16	'DELAWARE - NORTHEAST STATION 345KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.55572	137.4317	'PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.55572	137.9885	'G08-3BT 138.00 - WEST PAWHUSKA 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.55572	133.4556	'DOMES - MOUND ROAD 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.55572	134.7074	'DOMES - PAWHUSKA TAP 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36605	108.2714	'NORTHEAST STATION - WATOVA 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36605	108.3896	'NOWATA - WATOVA 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36912	107.0783	'BARTLESVILLE SOUTHEAST - RICE CREEK 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36912	106.8382	'NORTHEAST STATION - RICE CREEK 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36906	114.3204	'BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36906	114.1395	'COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.41571	115.7978	'BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36605	108.8494	'BARTLESVILLE SOUTHEAST - NOWATA 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36438	112.571	'COFFEYVILLE TAP - DEARING 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.35733	117.9488	'CLEVELAND - SOONER 345KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36867	112.4824	'BUNCH CREEK - NEENIDT4 138.00 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36867	112.7641	'BILLING4 - BUNCH CREEK 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.3713	104.2363	'MILLER - SOONER 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.3713	104.4115	'MILLER - PS31TP 4 138.00 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36256	112.6885	'PERRY - SOONER 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36284	113.281	'CIMARRON - WOODRING 345KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36867	113.1117	'MARLAND TAP - OSAGE 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.37643	103.2239	'OSAGE - SOONER PUMP TAP 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36839	114.7419	'KILDARE4 - NEWKIRK4 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36839	114.4345	'NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36571	113.4305	'KILDARE4 - WHITE EAGLE 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.3713	105.209	'PS31TP 4 138.00 - WHITE EAGLE 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36867	113.1116	'BILLING4 - MARLAND TAP 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.37643	103.0116	'SOONER - SOONER PUMP TAP 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36217	116.8731	'MORRISON - SOONER 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36215	107.926	'EASTERN AVE - OMPA-EDMOND EASTERN 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36215	107.9311	'DANFORTH - OMPA-EDMOND DANFORTH 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36215	108.8299	'KETCH - OMPA-EDMOND KETCH 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36008	124.5738	'MORRISON - STILLWATER 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.35871	120.7219	'KINZE - MCELROY 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.35871	122.5548	'MCELROY - STILLWATER 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36839	114.4349	'CRESWELL - PECKHMT4 138.00 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36537	108.0614	'EL PASO - FARBER 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.35979	108.3787	'CLEAVELAND - SILVER CITY 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.28415	100	'CLEAVELAND - CLEVELANDTAP138.00 138KV CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.35342	105.8942	'FAIRFAX 138/69KV TRANSFORMER CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.36434	108.4681	'TULSA NORTH (TULSA N) 345/138/13.8KV TRANSFORMER CKT 1'
G08_038		8 10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	0.3635	108.0882	'DELAWARE (DELAWARE) 345/138/13.8KV TRANSFORMER CKT 1'

SOURCE	GROUP	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%LOADING	TDF	CONTNAME
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.6443	0.36301	'4OOLOGAH 138.00 - NORTHEAST STATION 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.5873	0.36301	'CLAREMORE (CLRAUTO4) 161/138/13.8KV TRANSFORMER CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	119.4261	0.33675	'CLEVELAND (CLVAUTO1) 345/138/13.8KV TRANSFORMER CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.5874	0.36301	'4OOLOGAH 138.00 - CLAREMORE 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	108.2267	0.36324	'WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	113.6161	0.37949	'SOONER (SOONER5) 345/138/13.8KV TRANSFORMER CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	108.2513	0.36301	'NEOSHO (NEOSHO1X) 345/138/13.8KV TRANSFORMER CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	124.9706	0.36019	'OGE3TERM2'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	114.8467	0.36843	'OGE3TERM7'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	121.3571	0.34815	'OGE3TERM47'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	114.4348	0.36839	'SPP-WERE-41B'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	108.1174	0.36651	'WRTOD1104-1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	106.9641	0.36647	'WRTOD1104-2'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	106.834	0.3682	'WRTOD1104ALL'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	113.1166	0.36215	'GEN335831 1-RIVERBEND UNIT#1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	113.4901	0.36215	'GEN336153 1-WATERFORD UNIT#3'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	113.7177	0.36215	'GEN336821 1-GRAND GULF UNIT'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.6759	0.36215	'GEN337652 1-WHITE BLUFF UNIT #1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.6816	0.36215	'GEN337653 1-WHITE BLUFF UNIT #2'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	113.2393	0.36215	'GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	113.7475	0.36215	'GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.4667	0.36215	'GEN338146 1-INDEPENDENCE UNIT #2'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.3933	0.36215	'GEN509403 1-PIRKEY GENERATION'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	108.6299	0.36215	'GEN511839 1-NORTHEASTERN STATION #2'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.9612	0.36215	'GEN511842 1-RIVERSIDE STATION #1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	113.0041	0.36215	'GEN511843 1-RIVERSIDE STATION #2'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.7802	0.36215	'GEN512688 2-GRDA1 GSU2 22'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.3562	0.36215	'GEN512689 1-GRDA1 GSU1 22'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	100.4334	0.36215	'GEN514805 1-SOONER UNIT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.8033	0.36215	'GEN515223 1-MUSKOGEE 4G'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.8299	0.36215	'GEN515225 1-MUSKOGEE 5G'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.8205	0.36215	'GEN515226 1-MUSKOGEE 6G'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	108.214	0.36215	'GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	108.3987	0.36215	'GEN560211 1-G09-25 0.6900'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	102.7601	0.2991	'BASE CASE'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	100.4915	0.29758	'CLEVELAND - TULSA NORTH 345KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	104.5655	0.34058	'BARNSDALL - SKIATOOK PUMP 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	126.3334	0.45075	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	105.4165	0.2991	'SHIDWFC4 138.00 - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	122.2295	0.45075	'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	100.3936	0.29832	'DELAWARE - NORTHEAST STATION 345KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	113.9055	0.37547	'PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	114.1119	0.37547	'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	111.6762	0.37547	'DOMES - MOUND ROAD 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	112.3764	0.37547	'DOMES - PAWHUSKA TAP 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	100.2728	0.30375	'NORTHEAST STATION - WATOVA 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	100.4012	0.30375	'NOWATA - WATOVA 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	107.1942	0.30803	'BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	106.9851	0.30803	'COFFEYVILLE TAP - NORTH BARTLESVILLE 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	110.6042	0.36215	'NF'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	109.248	0.36404	'BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	100.9013	0.30375	'BARTLESVILLE SOUTHEAST - NOWATA 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	105.1403	0.30207	'COFFEYVILLE TAP - DEARING 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	109.4624	0.2936	'CLEVELAND - SOONER 345KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	104.6179	0.30413	'BILLING4 - BUNCH CREEK 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	104.7397	0.29943	'PERRY - SOONER 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	105.0517	0.29963	'CIMARRON - WOODRING 345KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	104.9327	0.30413	'MARLAND TAP - OSAGE 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	106.3263	0.30385	'KILDARE4 - NEWKIRK4 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	106.0538	0.30385	'NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	105.2084	0.30181	'KILDARE4 - WHITE EAGLE 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	104.9328	0.30413	'BILLING4 - MARLAND TAP 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	108.956	0.29904	'MORRISON - SOONER 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	100.3373	0.2991	'EASTERN AVE - OMPA-EDMOND EASTERN 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	100.3399	0.2991	'DANFORTH - OMPA-EDMOND DANFORTH 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	104.5481	0.29867	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	116.7375	0.29707	'MORRISON - STILLWATER 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	113.0172	0.29594	'KINZE - MCELROY 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	114.8627	0.29594	'MCELROY - STILLWATER 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	106.0543	0.30385	'CRESWELL - PECKHMT4 138.00 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	100.4461	0.30154	'EL PASO - FARBER 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	100.3993	0.297	'CLEAVELAND - SILVER CITY 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174	105.1502	0.30036	'4OOLOGAH 138.00 - NORTHEAST STATION 138KV CKT 1'

SOURCE	GROUP	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%LOADING	TDF	CONTNAME
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		105.0845	0.30036 'CLAREMORE (CLRAUT04) 161/138/13.8KV TRANSFORMER CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		112.605	0.27654 'CLEVELAND (CLVAUT01) 345/138/13.8KV TRANSFORMER CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		105.0846	0.30036 '4OOLGDAH 138.00 - CLAREMORE 138KV CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		100.7835	0.2991 'STILLWATER NORTH TAP (NTPAUT01) 138/69/13.8KV TRANSFORMER CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		100.7382	0.29986 'WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		105.0298	0.31145 'SOONER (SOONER5) 345/138/13.8KV TRANSFORMER CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		100.0518	0.3002 'NEOSHO (NEOSHO1X) 345/138/13.8KV TRANSFORMER CKT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		117.0971	0.29716 'OGE3TERM2'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		106.4194	0.30387 'OGE3TERM7'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		113.7499	0.28618 'OGE3TERM47'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		106.0542	0.30385 'SPP-WERE-41B'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		100.4822	0.3024 'WRTOD1104-1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		104.8416	0.2991 'GEN335831 1-RIVERBEND UNIT#1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		105.154	0.2991 'GEN336153 1-WATERFORD UNIT#3'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		105.3143	0.2991 'GEN336821 1-GRAND GULF UNIT'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		104.9142	0.2991 'GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		105.33	0.2991 'GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		104.7208	0.2991 'GEN511842 1-RIVERSIDE STATION #1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		104.7566	0.2991 'GEN511843 1-RIVERSIDE STATION #2'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		104.6216	0.2991 'GEN515223 1-MUSKOGEE 4G'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		104.6441	0.2991 'GEN515225 1-MUSKOGEE 5G'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		104.6362	0.2991 'GEN515226 1-MUSKOGEE 6G'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		100.5875	0.2991 'GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1'
G08_038	8	10G	'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'	'FROM->TO'	174	174		100.8199	0.2991 'GEN560211 1-G09-25 0.6900'
G08_038	8	10G	'BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1'	'TO->FROM'	120	133		115.1465	0.53766 'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1'	'TO->FROM'	120	133		110.5352	0.53766 'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'DOMES - MOUND ROAD 138KV CKT 1'	'FROM->TO'	172	192		123.9389	0.78558 'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'DOMES - MOUND ROAD 138KV CKT 1'	'FROM->TO'	172	192		119.2628	0.78558 'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'DOMES - PAWHUSKA TAP 138KV CKT 1'	'TO->FROM'	172	192		125.8716	0.78558 'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'DOMES - PAWHUSKA TAP 138KV CKT 1'	'TO->FROM'	172	192		121.1905	0.78558 'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'FAIRFAX 138/69KV TRANSFORMER CKT 1'	'FROM->TO'	56	56		184.7754	0.21442 'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'FAIRFAX 138/69KV TRANSFORMER CKT 1'	'FROM->TO'	56	56		179.3419	0.21442 'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192		140.6756	0.82807 'PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1'
G08_038	8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192		141.1694	0.82807 'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'
G08_038	8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192		135.4568	0.82807 'DOMES - MOUND ROAD 138KV CKT 1'
G08_038	8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192		137.0902	0.82807 'DOMES - PAWHUSKA TAP 138KV CKT 1'
G08_038	8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192		104.5947	0.525 'FAIRFAX 138/69KV TRANSFORMER CKT 1'
G08_038	8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192		104.6177	0.525 'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'
G08_038	8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192		104.6766	0.52501 'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'
G08_038	8	10G	'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'	'FROM->TO'	143	143		175.7892	0.78558 'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'	'FROM->TO'	143	143		169.4875	0.78558 'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'	'FROM->TO'	143	143		107.177	0.475 'FAIRFAX 138/69KV TRANSFORMER CKT 1'
G08_038	8	10G	'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'	'FROM->TO'	143	143		107.1871	0.475 'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'
G08_038	8	10G	'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'	'FROM->TO'	143	143		102.9899	0.4391 'GEN511839 1-NORTHEASTERN STATION #2'
G08_038	8	10G	'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'	'FROM->TO'	143	143		107.1056	0.47499 'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'
G08_038	8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170		104.0869	0.46738 'BASE CASE'
G08_038	8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170		152.203	0.82807 'PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1'
G08_038	8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170		152.7586	0.82807 'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'
G08_038	8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170		146.3356	0.82807 'DOMES - MOUND ROAD 138KV CKT 1'
G08_038	8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170		148.1717	0.82807 'DOMES - PAWHUSKA TAP 138KV CKT 1'
G08_038	8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170		102.0834	0.55588 'BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1'
G08_038	8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170		111.6621	0.525 'FAIRFAX 138/69KV TRANSFORMER CKT 1'
G08_038	8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170		111.6889	0.525 'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'
G08_038	8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170		105.2	0.46738 'SOONER 138/22.0KV TRANSFORMER CKT 1'
G08_038	8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170		106.4194	0.46738 'GEN514805 1-SOONER UNIT 1'
G08_038	8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170		111.7542	0.52501 'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'
G08_038	8	10G	'PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1'	'TO->FROM'	172	192		130.3244	0.78558 'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1'	'TO->FROM'	172	192		125.6301	0.78558 'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_079	0	14SP	'CIMARRON RIVER PLANT - CIMARRON RIVER TAP 115KV CKT 1'	'TO->FROM'	83.9	89.6		109.3	0.29253 'CIMARRON RIVER PLANT - HAYNE 3 115.00 115KV CKT 1'
G08_079	3	10G	'CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1'	'FROM->TO'	110	110		108.5136	0.21217 'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
G08_079	3	10G	'CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1'	'FROM->TO'	110	110		116.4064	0.21217 'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
G08_079	3	10G	'CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1'	'FROM->TO'	110	110		115.7964	0.21217 'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
G08_079	3	10G	'CLEARWATER - MILAN TAP 138KV CKT 1'	'TO->FROM'	110	110		119.7325	0.21217 'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
G08_079	3	10G	'CLEARWATER - MILAN TAP 138KV CKT 1'	'TO->FROM'	110	110		127.8579	0.21217 'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
G08_079	3	10G	'CLEARWATER - MILAN TAP 138KV CKT 1'	'TO->FROM'	110	110		127.2345	0.21217 'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
G08_079	3	10G	'G01-39AT 115.00 - GREENSBURG 115KV CKT 1'	'FROM->TO'	120.7	129.5		107.85	0.40714 'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
G08_079	3	10G	'G01-39AT 115.00 - GREENSBURG 115KV CKT 1'	'FROM->TO'	120.7	129.5		106.5276	0.40714 'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
G08_079	3	10G	'HARPER - MILAN TAP 138KV CKT 1'	'FROM->TO'	95.6	95.6		147.6751	0.21217 'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
G08_079	3	10G	'HARPER - MILAN TAP 138KV CKT 1'	'FROM->TO'	95.6	95.6		156.919	0.21217 'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
G08_079	3	10G	'HARPER - MILAN TAP 138KV CKT 1'	'FROM->TO'	95.6	95.6		156.2182	0.21217 'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
G08_079	4	10G	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336		105.7	0.21137 'G08-17 345.00 - SETAB 345KV CKT 1'
G08_079	4	10G	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336		105.7	0.21137 'G08-17 345.00 345/34.5KV TRANSFORMER CKT 1'
G08_079	3	10G	'NINNES3 115.00 - ST JOHN 115KV CKT 1'	'FROM->TO'	79.7	79.7		123.4767	0.19498 'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'

SOURCE	GROUP	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%LOADING	TDF	CONTNAME
G08_079		3 10G	'NINNES3 115.00 - ST JOHN 115KV CKT 1'	'FROM->TO'	79.7	79.7	134.6351	0.19498	'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
G08_079		3 10G	'NINNES3 115.00 - ST JOHN 115KV CKT 1'	'FROM->TO'	79.7	79.7	133.7832	0.19498	'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
G08_129		0 14SP	'KC SOUTH - LONGVIEW 161KV CKT 1'	'TO->FROM'	224	224	100.0845	0.22144	'BLUE SPRING SOUTH - BLUE SPRINGS EAST 161KV CKT 1'
G08_129		0 14SP	'KC SOUTH - LONGVIEW 161KV CKT 1'	'TO->FROM'	224	224	104.9072	0.22144	'BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1'
G09_016		1 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	102.779	0.25256	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	101.5333	0.33357	'CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	100.618	0.33357	'CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	101.4833	0.24986	'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	111.3471	0.33383	'CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	110.4232	0.33383	'CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	113.099	0.25009	'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	103.7121	0.25009	'G05-1ST 345.00 - OKLAUNION 345KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	105.9358	0.25246	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	100.9731	0.25246	'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	101.2091	0.25009	'G05-1ST 345.00 - TUCO INTERCHANGE 345KV CKT 1'

H: ACCC Analysis (No Prior Queued Upgrades)

SOURCE	GROUP DISPATCH	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%	LOADING	TDF	CONTNAME
G06_044N		9 10G	'ALBION - PETERSBURG 115KV CKT 1'	'TO->FROM'	113	113			137.4895	1 'G06-44NT 115.00 - NELIGH 115KV CKT 1'
G06_044N		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			104.8866	0.23978 'ALBION - PETERSBURG 115KV CKT 1'
G06_044N		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			105.8467	0.22262 'BATTLE CREEK - COUNTY LINE 115KV CKT 1'
G06_044N		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			104.3239	0.22262 'BATTLE CREEK - NORTH NORFOLK 115KV CKT 1'
G06_044N		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			106.0054	0.22262 'COUNTY LINE - NELIGH 115KV CKT 1'
G06_044N		9 10G	'G06-44NT 115.00 - NELIGH 115KV CKT 1'	'FROM->TO'	113	113			137.7645	1 'ALBION - PETERSBURG 115KV CKT 1'
G07_011N06		9 10G	'ALBION - PETERSBURG 115KV CKT 1'	'TO->FROM'	113	113			137.4895	1 'G06-44NT 115.00 - NELIGH 115KV CKT 1'
G07_011N06		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			104.8866	0.23978 'ALBION - PETERSBURG 115KV CKT 1'
G07_011N06		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			105.8467	0.22262 'BATTLE CREEK - COUNTY LINE 115KV CKT 1'
G07_011N06		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			104.3239	0.22262 'BATTLE CREEK - NORTH NORFOLK 115KV CKT 1'
G07_011N06		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			106.0054	0.22262 'COUNTY LINE - NELIGH 115KV CKT 1'
G07_011N06		9 10G	'G06-44NT 115.00 - NELIGH 115KV CKT 1'	'FROM->TO'	113	113			137.7645	1 'ALBION - PETERSBURG 115KV CKT 1'
G07_011N09		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			104.8866	0.66655 'ALBION - PETERSBURG 115KV CKT 1'
G07_011N09		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			105.8467	0.68665 'BATTLE CREEK - COUNTY LINE 115KV CKT 1'
G07_011N09		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			104.3239	0.68665 'BATTLE CREEK - NORTH NORFOLK 115KV CKT 1'
G07_011N09		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			122.1838	0.99862 'BLOOMFIELD - CREIGHTON 115KV CKT 1'
G07_011N09		9 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			106.0054	0.68665 'COUNTY LINE - NELIGH 115KV CKT 1'
G07_040		3 10G	'BLOOMFIELD - GAVINS POINT 115KV CKT 1'	'FROM->TO'	120	120			108.8095	0.99862 'CREIGHTON - NELIGH 115KV CKT 1'
G07_040		3 10G	'CIRCLE - MULLERGREEN 230KV CKT 1'	'TO->FROM'	319	319			115.3764	0.19845 'GRAY CO 345.00 - HOLCOMB 345KV CKT 1'
G07_040		3 10G	'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'	'FROM->TO'	448	448			105.8656	0.20863 'AXTELL - KNOLL345 345.00 345KV CKT 1'
G07_040		3 10G	'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'	'FROM->TO'	448	448			109.3617	0.20021 'MULLERGREEN - SPEARVILLE 230KV CKT 1'
G07_040		2 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3			115.0098	0.19764 'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'
G07_040		2 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3			155.7402	0.27613 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G07_040		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3			150.2574	0.19826 'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'
G07_040		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3			209.5345	0.27706 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G07_040		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3			139.5808	0.20403 'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G07_040		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3			132.3588	0.20403 'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G07_040		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3			122.0252	0.29196 'GRAY CO 345.00 - HOLCOMB 345KV CKT 1'
G07_040		4 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3			110.2496	0.27751 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G07_040		5 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3			124.7066	0.27753 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G07_040		2 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336			102.2953	0.23265 'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'
G07_040		2 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336			102.3061	0.23265 'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'
G07_040		2 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336			149.3615	0.32544 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G07_040		2 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336			148.5922	0.32544 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G07_040		5 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336			117.1168	0.32697 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G07_040		5 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336			116.9234	0.32697 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G08_023		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			112.7242	0.19412 'CARNEGIE - HOBART JUNCTION 138KV CKT 1'
G08_023		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			111.7977	0.19412 'CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1'
G08_023		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			116.6413	0.1946 'CARNEGIE - HOBART JUNCTION 138KV CKT 1'
G08_023		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			115.7102	0.1946 'CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			110.6448	0.23332 'ATWOOD - MCDONLD3 115.00 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			114.5982	0.30509 'BREWSTER - GOODLAND 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			114.3494	0.30509 'BREWSTER - MINGO 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			114.8429	0.30509 'GOODLAND - GOODLAND TAP 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			111.6193	0.23332 'LAWN RIDGE - RULETON 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			116.6788	0.30509 'GOODLAND TAP - RULETON 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			110.7839	0.23332 'BIRD CITY - ST.FRANCIS 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			110.6448	0.23332 'BIRD CITY - MCDONLD3 115.00 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			111.3967	0.23332 'LAWN RIDGE - ST.FRANCIS TAP 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			111.0109	0.23332 'ST.FRANCIS - ST.FRANCIS TAP 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			119.5674	0.2074 'FLETCHER - WILLIAMSON 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			119.9612	0.2074 'SYRACUSE - WILLIAMSON 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			110.91	0.27076 'MINGO (MINGO) 345/115/13.8KV TRANSFORMER CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			121.3161	0.19177 'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1'	'TO->FROM'	120	143			112.1499	0.26923 'SPP-SUNC-13'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			106.8697	0.23332 'ATWOOD - MCDONLD3 115.00 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			110.8259	0.30509 'BREWSTER - GOODLAND 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			110.5764	0.30509 'BREWSTER - MINGO 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			111.0707	0.30509 'GOODLAND - GOODLAND TAP 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			107.843	0.23332 'LAWN RIDGE - RULETON 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			112.9053	0.30509 'GOODLAND TAP - RULETON 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			107.0085	0.23332 'BIRD CITY - ST.FRANCIS 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			106.8697	0.23332 'BIRD CITY - MCDONLD3 115.00 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			107.6205	0.23332 'LAWN RIDGE - ST.FRANCIS TAP 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			107.2352	0.23332 'ST.FRANCIS - ST.FRANCIS TAP 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			115.7916	0.2074 'FLETCHER - WILLIAMSON 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			107.2	0.26923 'SYRACUSE - TRIBUNE 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			116.1853	0.2074 'SYRACUSE - WILLIAMSON 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			108.4	0.26923 'TRIBUNE - TRIBUNE SWITCH 115KV CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			107.151	0.27076 'MINGO (MINGO) 345/115/13.8KV TRANSFORMER CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			117.4629	0.19177 'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'
G08_025		4 10G	'CITIES SERVICE TAP - SETAB 115KV CKT 1'	'FROM->TO'	120	143			108.3776	0.26923 'SPP-SUNC-13'

SOURCE	GROUP DISPATCH	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%LOADING	TDF	CONTNAME
G08_029		1 10G	BLOWN UP	TO->FROM'	1195	1195		106.2754	0.46682 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G08_029		1 10G	BLOWN UP	TO->FROM'	1195	1195		49.38812	0.46682 'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		107.6311	0.2046 'BASE CASE'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		119.7812	0.2074 'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		110.8001	0.2074 'G05-15T 345.00 - OKLAUNION 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		106.66	0.1992 'BECKHAM CO 230.00 - ELK CITY 230KV 230KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		109.8943	0.2327 'WOODWARD - WOODWARD 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		114.6395	0.24414 'DEWEY - IODINE 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		108.499	0.20825 'DEWEY - TALOGA 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.7	0.2046 'DEWEY - G06-46 138.00 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		115.3781	0.24414 'IODINE - WWRDEHV4 138.00 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		101.8	0.2046 'G07-06 138.00 - ROMAN NOSE 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		104.5473	0.2089 'CIMARRON - NORTHWEST 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.5095	0.20709 'ARCADIA - NORTHWEST 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		125.9326	0.24894 'MIDPT_BUS 7 345.00 - WWRDEHV7 345.00 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		101.9418	0.20609 'CANTON - OKEENE 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.1109	0.20609 'CANTON - TALOGA 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		108.5	0.2046 'FT SUPPLY - SLEEPING 138.00 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		107.2172	0.20709 'FT SUPPLY - IODINE 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		106.3405	0.20709 'IODINE - MOORELAND 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.0764	0.21276 'CARTER JCT - WOODWARD 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.26	0.20584 'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		101.9691	0.1992 'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.947	0.2021 'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		101.9702	0.1992 'BECKHAM CO 230.00 - STATELINE INTERCHANGE 230KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		104.1336	0.20584 'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		103.4652	0.2046 'PNM BLACKWATER DC TIE - Roosevelt County Interchange SOUTH 230KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		125.7266	0.24894 'MIDPT_BUS 7 345.00 - TUCO INTERCHANGE 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		108.4444	0.2074 'G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		101.6	0.2046 'BECKHAM CO 230.00 - BECKHAM EHV 230.00 230KV CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		106.6568	0.1992 'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		118.4907	0.2327 'WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.4	0.2046 'SOONER 138/22.0KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		103.2602	0.23368 'WWRDEHV7 345.00 (WVDEHV-T) 345/138/13.8KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		103.2602	0.23368 'WWRDEHV7 345.00 (WVDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		121.2	0.2046 'MOORELAND 138/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.9	0.2046 'HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.9	0.2046 'Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		101.8	0.2046 'G07-06 138.00 138/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.7	0.2046 'G06-46 138.00 138/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.2815	0.19916 'SPP-SWPS-03B'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.1959	0.2046 'GEN336153 1-WATERFORD UNIT#3'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.4099	0.2046 'GEN336821 1-GRAND GULF UNIT'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.7286	0.2046 'GEN514805 1-SOONER UNIT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		108.6626	0.2046 'GEN520922 1-SLEEPING 138.00'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		103.6651	0.2046 'GEN521116 1-RHWIND4 138.00'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		101.8647	0.2046 'GEN521120 1-BUFBEAR2 69.000'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		103.1524	0.2046 'GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		101.9047	0.2046 'GEN560117 1-G07-06 0.6000'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		102.8063	0.2046 'GEN560152 1-G06-46 0.6000'
G08_029		1 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		121.5688	0.2046 'GEN560183 1-G07-51 0.6000'
G08_029		2 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		109.892	0.38166 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G08_029		5 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		116.1099	0.38203 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G08_029		6 10G	'FPL SWITCH - MOORELAND 138KV CKT 1'	FROM->TO'	268	287		111.1563	0.38244 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		148.9647	0.20861 'BASE CASE'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		122.997	0.20656 'CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		123.2225	0.20656 'CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		164.6647	0.21142 'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		147.2819	0.21142 'G05-15T 345.00 - OKLAUNION 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		126.6	0.20861 'OKLAUN - OKLAUNION 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		122.2561	0.20695 'CLINTON JUNCTION - ELK CITY 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		102.217	0.19287 'ELK CITY - RHWIND4 138.00 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		127.1251	0.20832 'WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		140.3573	0.20321 'BECKHAM CO 230.00 - ELK CITY 230KV 230KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		116.9	0.20861 'TATONGA EHV 345.00 345/138KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		120.8129	0.19854 'WAUKOMIS - WAUKOMIS TAP 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		120.4169	0.19854 'HENESSEY - WAUKOMIS 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		126.5607	0.2049 'WAUKOMIS TAP - WOODRING 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		123.2585	0.20392 'KNOBHILL - SALINE 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		123.6425	0.20392 'HELENAT2 69.000 - SALINE 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		124.5512	0.20392 'GOLTRY - IMO 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		124.3364	0.20392 'GOLTRY - HELENAT2 69.000 69KV CKT 1'

SOURCE	GROUP DISPATCH	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%LOADING	TDF	CONTNAME
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	125.6316	0.20466	'IMO TAP - SOUTH 4TH ST 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	119.6952	0.19854	'DOVER SW - HENESSEY 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	147.9107	0.23671	'WOODWARD - WOODWARD 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	116.1	0.20861	'CENT 4 138.00 - WOODWARD 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	156.2885	0.24816	'DEWEY - IODINE 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	121.8727	0.2017	'DEWEY - SOUTHARD 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	143.9155	0.21227	'DEWEY - TALOGA 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	134.2	0.20861	'DEWEY - G06-46 138.00 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	126.4586	0.20778	'ALVA - KNOBHILL 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	115.6111	0.20223	'KNOBHILL - MOORELAND 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	157.6086	0.24816	'IODINE - WWRDEHV4 138.00 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	118.1821	0.2017	'EL RENO - ROMAN NOSE 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	122.5422	0.2017	'ROMAN NOSE - SOUTHARD 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	132	0.20861	'G07-06 138.00 - ROMAN NOSE 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	136.6386	0.21291	'CIMARRON - NORTHWEST 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	132.9027	0.2111	'ARCADIA - NORTHWEST 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	175.9241	0.25296	'MIDPT_BUS 7 345.00 - WWRDEHV7 345.00 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	118.7	0.20861	'OUSPRT 4 138.00 - WWRDEHV4 138.00 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	102	0.20861	'G08-29 138.00 - WWRDEHV4 138.00 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	108.8	0.20861	'G08-19 345.00 - TATONGA EHV 345.00 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	152.8	0.20861	'FPL SWITCH - OKLA WIND ENERGY CENTER 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	127.1881	0.20783	'ALVA - CHEROKEE SW 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	127.297	0.20714	'BRANTLEY - DURHAM 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	127.1965	0.20714	'BRANTLEY - MORWOOD 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	127.2667	0.20657	'CALUMET - WATONGA SW 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	131.8557	0.2101	'CANTON - OKEENE 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	132.3086	0.2101	'CANTON - TALOGA 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	110.8908	0.19462	'DOVER SW - OKEENE 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	127.4709	0.20714	'DURHAM - SWEETWATER 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	144.5	0.20861	'FT SUPPLY - SLEEPING 138.00 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	140.2591	0.21111	'FT SUPPLY - IODINE 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	138.695	0.21111	'IODINE - MOORELAND 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	131.5784	0.21678	'CARTER JCT - MOORELAND 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	123.509	0.20328	'MOORELAND - TALOGA 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	127.1871	0.20714	'MOREWOOD SW - MORWOOD 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	117.6955	0.19287	'MOREWOOD SW - RHWIND4 138.00 138KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	125.8587	0.20615	'OKEENE - WATONGA SW 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	127.5907	0.2073	'PUTNAM - TALOGA 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	132.2522	0.21678	'CARTER JCT - WOODWARD 69KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	132.205	0.20986	'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	132.1849	0.20321	'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	133.9078	0.20611	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	132.1816	0.20321	'BECKHAM CO 230.00 - STATELINE INTERCHANGE 230KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	135.0829	0.20986	'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	134.4197	0.20861	'PNM BLACKWATER DC TIE - Roosevelt County Interchange SOUTH 230KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	175.5651	0.25296	'MIDPT_BUS 7 345.00 - TUCO INTERCHANGE 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	143.3012	0.21142	'G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	131.5	0.20861	'BECKHAM CO 230.00 - BECKHAM EHV 230.00 230KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	112.2	0.20861	'G07-62 345.00 - G07-62-1 345.00 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	112.2	0.20861	'G07-62 345.00 - G07-62-2 345.00 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	112.3	0.20861	'G07-62 345.00 - G07-62-3 345.00 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	112.4	0.20861	'G07-62 345.00 - G07-62-4 345.00 345KV CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	140.3518	0.20321	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	116.9	0.20861	'G07-21 138.00 138/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	127.2909	0.20017	'WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	164.1762	0.23671	'WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	116.0496	0.20223	'KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	132.5	0.20861	'SOONER 138/22.0KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	116	0.20861	'CENT 4 138.00 138/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	134.2145	0.23769	'WWRDEHV7 345.00 (WVDEHV-T) 345/138/13.8KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	134.2145	0.23769	'WWRDEHV7 345.00 (WVDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	107.8	0.20861	'WWRDEHV4 138.00 138/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	111	0.20861	'TATONGA EHV 345.00 345/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	118.7	0.20861	'OUSPRT 4 138.00 (OUSPRT1) 138/34.5/9.96KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	153.1	0.20861	'OKLA WIND ENERGY CENTER 138/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	131.5777	0.21678	'MOORELAND (MOORELND) 138/69/13.8KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	169.3	0.20861	'MOORELAND 138/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	133.8	0.20861	'HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	133.8	0.20861	'Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	118	0.20861	'TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	132	0.20861	'G07-06 138.00 138/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153	134.2	0.20861	'G06-46 138.00 138/34.5KV TRANSFORMER CKT 1'

SOURCE	GROUP DISPATCH	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%LOADING	TDF	CONTNAME
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		108.7	0.20861 'G08-19 345.00 345/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		112.2	0.20861 'G07-62-1 345.00 345/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		112.2	0.20861 'G07-62-2 345.00 345/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		112.3	0.20861 'G07-62-3 345.00 345/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		112.4	0.20861 'G07-62-4 345.00 345/34.5KV TRANSFORMER CKT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		119.642	0.19746 'OGE3TERM1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		110.647	0.194 'OGE3TERM9'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		132.7483	0.20317 'SPP-SWPS-03B'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		132.1076	0.20861 'GEN536153 1-WATERFORD UNIT#3'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		132.446	0.20861 'GEN536821 1-GRAND GULF UNIT'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		116.9874	0.20861 'GEN514700 1-G07-21 0.5750'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		132.9444	0.20861 'GEN514805 1-SOONER UNIT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		116.1273	0.20861 'GEN515364 1-CENT 11 0.6000'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		118.7619	0.20861 'GEN515397 1-OUSPRT 1 34.500'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		150.0766	0.20861 'GEN515790 1-FPLWIND2'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		144.9353	0.20861 'GEN520922 1-SLEEPING 138.00'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		135.1475	0.20861 'GEN521116 1-RHWIND4 138.00'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		131.8644	0.20861 'GEN521120 1-BUFBEAR2 69.000'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		119.0076	0.20861 'GEN525561 1-TOLK GEN #1 24 KV'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		120.0203	0.20861 'GEN525562 1-TOLK GEN #2 24 KV'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		123.8788	0.20861 'GEN526331 1-JONES GEN #1 22 KV'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		123.8775	0.20861 'GEN526332 1-JONES GEN #2 21 KV'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		126.5314	0.20861 'GEN527161 1-MUSTANG GEN #1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		126.5318	0.20861 'GEN527162 1-MUSTANG GEN #2'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		126.3652	0.20861 'GEN527163 1-MUSTANG GEN #3 22 KV'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		126.5468	0.20861 'GEN527164 1-MUSTANG GEN #4 22 KV'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		126.55	0.20861 'GEN527165 1-Mustang Gen #5'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		125.6609	0.20861 'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		126.5396	0.20861 'GEN527901 1-HOBBS PLANT #1 (CT)'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		126.5396	0.20861 'GEN527902 1-HOBBS PLANT #2 (CT)'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		125.3888	0.20861 'GEN527903 1-HOBBS PLANT #3 (ST)'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		133.5802	0.20861 'GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		132.0903	0.20861 'GEN560117 1-G07-06 0.6000'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		134.3405	0.20861 'GEN560152 1-G06-46 0.6000'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		108.7764	0.20861 'GEN560153 1-G08-19 0.6000'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		111.0943	0.20861 'GEN560175 1-G07-44 0.5750'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		107.8892	0.20861 'GEN560182 1-G07-50 0.6000'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		170.0649	0.20861 'GEN560183 1-G07-51 0.6000'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		112.2878	0.20861 'GEN560221 1-G07-62-1 0.6900'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		112.2878	0.20861 'GEN560222 1-G07-62-2 0.6900'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		112.4023	0.20861 'GEN560223 1-G07-62-3 0.6900'
G08_029		1 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		112.4532	0.20861 'GEN560224 1-G07-62-4 0.6900'
G08_029		2 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		102.0191	0.20861 'GEN560429 1-G08-29 0.6400'
G08_029		2 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		108.7516	0.20973 'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'
G08_029		2 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		107.8838	0.20149 'BECKHAM CO 230.00 - ELK CITY 230KV 230KV CKT 1'
G08_029		2 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		193.7267	0.38266 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G08_029		2 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		154.9633	0.38266 'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'
G08_029		2 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		107.7992	0.20149 'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
G08_029		3 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		157.5644	0.3833 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G08_029		3 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		119.4227	0.3833 'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'
G08_029		4 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		150.2895	0.38351 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G08_029		4 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		113.0455	0.38351 'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'
G08_029		5 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		102.0556	0.20991 'G05-15T 345.00 - OKLAUNION 345KV CKT 1'
G08_029		5 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		111.9664	0.2017 'BECKHAM CO 230.00 - ELK CITY 230KV 230KV CKT 1'
G08_029		5 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		205.2299	0.38304 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G08_029		5 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		164.5811	0.38304 'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'
G08_029		5 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		102.5055	0.2017 'GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1'
G08_029		5 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		102.4748	0.2017 'BECKHAM CO 230.00 - STATELINE INTERCHANGE 230KV CKT 1'
G08_029		5 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		111.9545	0.2017 'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
G08_029		5 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		103.249	0.20166 'SPP-SWPS-03B'
G08_029		6 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		112.3344	0.21013 'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'
G08_029		6 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		102.2423	0.21013 'G05-15T 345.00 - OKLAUNION 345KV CKT 1'
G08_029		6 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		103.4134	0.2019 'BECKHAM CO 230.00 - ELK CITY 230KV 230KV CKT 1'
G08_029		6 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		196.067	0.38343 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G08_029		6 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		158.172	0.38343 'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'
G08_029		6 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		103.4062	0.2019 'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
G08_029		6 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		102.9655	0.23537 'WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1'
G08_029		7 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		134.6226	0.38356 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G08_029		8 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		131.5562	0.38356 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G08_029		9 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		143.7458	0.38363 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G08_029		9 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		106.6168	0.38363 'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'
G08_029		10 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153		144.7186	0.38367 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'

GROUP		SEASON		ELEMENT		DIRECTION		RATEA	RATEB	TC%	LOADING	TDF	CONTNAME	
SOURCE	DISPATCH	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%	LOADING	TDF	CONTNAME				
G08_029		10 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153			107.5805	0.38367	'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'			
G08_029		11 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153			145.0665	0.38365	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'			
G08_029		11 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153			108.0626	0.38365	'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'			
G08_029		12 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153			144.8591	0.38367	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'			
G08_029		12 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153			107.7246	0.38367	'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'			
G08_029		13 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153			142.6846	0.38361	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'			
G08_029		13 10G	'FPL SWITCH - WOODWARD 138KV CKT 1'	TO->FROM'	133	153			105.5658	0.38361	'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.2754	0.46682	'BASE CASE'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.5602	0.46732	'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.7294	0.46729	'AXTELL - KNOLL345 345.00 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			105.9314	0.46637	'DELAWARE - NORTHEAST STATION 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			105.9084	0.46538	'PITTSBURG - SEMINOLE 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.8085	0.46731	'HINTON - WEATHERFORD JCT. 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.7937	0.46731	'CAN_GAS4 138.00 - HINTON 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.6333	0.46789	'CARNEGIE - HOBART JUNCTION 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.7139	0.46938	'CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.665	0.46938	'CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			125.8197	0.47881	'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			116.5733	0.47881	'G05-15T 345.00 - OKLAUNION 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			108.1414	0.46931	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			109.6772	0.47845	'ELK CITY - RHWIND4 138.00 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			108.1823	0.47028	'LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.7291	0.46709	'CLINTON JUNCTION - CLINTON NATURAL GAS TAP 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.961	0.46731	'WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.7938	0.46572	'BECKHAM CO 230.00 - ELK CITY 230KV 230KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.7518	0.46709	'WEATHERFORD SOUTHEAST - WEATHERFORD TAP 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.6224	0.46709	'CLINTON NATURAL GAS TAP - WEATHERFORD WIND FARM 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.8271	0.46709	'WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.7494	0.46731	'CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.9932	0.47869	'WAUKOMIS - WAUKOMIS TAP 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			108.086	0.47869	'HENESSEY - WAUKOMIS 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.7376	0.47079	'WAUKOMIS TAP - WOODRING 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.3243	0.47156	'KNOBHILL - SALINE 69KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.2644	0.47156	'HELENAT2 69.000 - SALINE 69KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.1112	0.47156	'GOLTRY - IMO 69KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.1476	0.47156	'GOLTRY - HELENAT2 69.000 69KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.8483	0.47059	'IMO TAP - SOUTH 4TH ST 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			108.2322	0.47869	'DOVER SW - HENESSEY 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			111.9241	0.48887	'CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			112.3747	0.49431	'CLEO CORNER - MEN TAP 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.8899	0.47467	'WOODWARD - WOODWARD 69KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			113.2814	0.53976	'FPL SWITCH - WOODWARD 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			108.4874	0.4891	'DEWEY - IODINE 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			112.9421	0.4995	'DEWEY - SOUTHARD 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			112.0388	0.48887	'GLASS MOUNTAIN - MOORELAND 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			112.2162	0.49431	'IMO TAP - MEN TAP 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			108.0597	0.47183	'KNOBHILL - MOORELAND 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			108.6133	0.4891	'IODINE - WWRDEHV4 138.00 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.392	0.4592	'SOONER - SPRING CREEK 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			119.2094	0.4995	'EL RENO - ROMAN NOSE 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.1308	0.46985	'CIMARRON - EL RENO 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.6289	0.46749	'JENSEN ROAD - JENSEN TAP 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.7284	0.4684	'CIMARRON - JENSEN TAP 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			112.2649	0.4995	'ROMAN NOSE - SOUTHARD 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.5812	0.4592	'NORTHWEST - SPRING CREEK 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			103.2731	0.45415	'CIMARRON - NORTHWEST 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.0664	0.46011	'ARCADIA - NORTHWEST 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.0986	0.4658	'CIMARRON - DRAPER LAKE 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.5848	0.46479	'CIMARRON - G07-43T 345.00 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			105.9775	0.46565	'ARCADIA - HORSESHOE LAKE 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			105.9756	0.46565	'HORSESHOE LAKE - SEMINOLE 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			125.5056	0.59617	'MIDPT_BUS 7 345.00 - WWRDEHV7 345.00 345KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			117.4074	0.53836	'FPL SWITCH - MOORELAND 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.6609	0.4678	'CLINTON - G07-32T 138.00 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.1154	0.47066	'ARAPAHO - HAMON BUTLER 69KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.1131	0.47066	'ARAPAHO - INDUSTRIAL PARK 69KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.6839	0.4677	'BUFBEAR2 69.000 - BUFFALO 69KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			106.6877	0.46911	'CALUMET - WATONGA SW 69KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.0975	0.46993	'CANTON - OKEENE 69KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			107.0205	0.46993	'CANTON - TALOGA 69KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			110.5027	0.4824	'CEDARDALE - MOORELAND 138KV CKT 1'			
G08_029		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195			110.4179	0.4824	'CEDARDALE - OKEENE 138KV CKT 1'			

SOURCE	GROUP DISPATCH	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%LOADING	TDF	CONTNAME
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.6436	0.4678	'CLINTON - WEATHERFORD 138KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.9406	0.47066	'CORDELL - GOTEBO 69KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.0732	0.47066	'CORDELL - INDUSTRIAL PARK 69KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	109.7702	0.48218	'DOVER SW - OKEENE 138KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.1171	0.47066	'HAMON BUTLER - PUTNAM 69KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	110.3409	0.49198	'MOORELAND - MOREWOOD SW 138KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.7337	0.47845	'MOREWOOD SW - RHWINDA 138.00 138KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.0218	0.47	'OKEENE - WATONGA SW 69KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.1544	0.47066	'PUTNAM - TALOGA 69KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.9692	0.46479	'ANADARK7 345.00 - G07-43T 345.00 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	109.6181	0.47848	'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7287	0.46816	'G05-17T 345.00 - Hitchland Interchange 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	112.8935	0.47848	'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	105.8756	0.46711	'DEAF SMITH COUNTY INTERCHANGE - G06-39T 230.00 230KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	110.0833	0.46682	'PNM BLACKWATER DC TIE - Roosevelt County Interchange SOUTH 230KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	105.8488	0.46876	'G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	105.6998	0.46876	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	125.3521	0.59617	'MIDPT_BUS 7 345.00 - TUCO INTERCHANGE 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	114.1798	0.47881	'G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7473	0.46675	'SMOKYHILLS6 230.00 - SUMMIT 230KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8106	0.46767	'HOLCOMB - SETAB 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.9051	0.46788	'GRAY CO 345.00 - HOLCOMB 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.1872	0.46787	'MINGO - SETAB 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8943	0.46804	'MINGO - RED WILLOW 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	108.1841	0.46788	'GRAY CO 345.00 - SPEARVILLE 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	105.91	0.46522	'G08-12T 345.00 - ROSE HILL 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7773	0.46668	'CIRCLE - MULLERGREEN 230KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8107	0.46684	'MULLERGREEN - SPEARVILLE 230KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.6365	0.46693	'AXTELL - PAULINE 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.826	0.46689	'GRAND ISLAND - SWEETWATER 345KV CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7919	0.46572	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.488	0.47467	'WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.999	0.47183	'KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	105.5806	0.46621	'NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	105.7343	0.46626	'NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.6486	0.46674	'SUNNYSIDE (SUNNYS3) 345/138/13.8KV TRANSFORMER CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	105.4962	0.43192	'WWRDEHV7 345.00 (WVDEHV-T) 345/138/13.8KV TRANSFORMER CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	105.4962	0.43192	'WWRDEHV7 345.00 (WVDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.9285	0.4685	'TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	105.8866	0.46829	'Hitchland Interchange ((HITCHLND)) 345/230/13.2KV TRANSFORMER CKT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	108.1942	0.47976	'OGE3TERM1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	109.8007	0.48322	'OGE3TERM9'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8971	0.46853	'OGE3TERM10'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.6898	0.46682	'GEN300001 1-THOMAS HILL UNIT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.729	0.46682	'GEN300002 1-THOMAS HILL UNIT 2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.0341	0.46682	'GEN300003 1-THOMAS HILL UNIT 3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.8821	0.46682	'GEN300006 1-NEW MADRID UNIT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.8801	0.46682	'GEN300007 1-NEW MADRID UNIT 2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.748	0.46682	'GEN300016 1-1G1GPDDEL 18.000'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.748	0.46682	'GEN300017 1-1G2GPDDEL 18.000'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7989	0.46682	'GEN300031 1-CHOUTEAU CTG 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7989	0.46682	'GEN300032 1-CHOUTEAU CTG 2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8872	0.46682	'GEN318007 1-SMOROW161 161.00'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7805	0.46682	'GEN334030 1-FRONTIER UNIT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7299	0.46682	'GEN334031 1-FRONTIER UNIT 2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7387	0.46682	'GEN334392 1-EXXON MOBIL IPP 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.6694	0.46682	'GEN334431 1-SABINE UNIT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.71	0.46682	'GEN334433 1-SABINE UNIT 3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.2061	0.46682	'GEN334440 1-SABINE UNIT 4'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7824	0.46682	'GEN335075 1-DYNEGY#1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8054	0.46682	'GEN335076 1-DYNEGY UNIT2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.3762	0.46682	'GEN335137 2-PPG'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.6302	0.46682	'GEN335201 1-NELSON UNIT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.9339	0.46682	'GEN335204 1-NELSON UNIT 4'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	108.1129	0.46682	'GEN335206 1-NELSON UNIT 6'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.5923	0.46682	'GEN335546 1-DOW COGEN'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7944	0.46682	'GEN335613 1-WILLOW GLENN UNIT#3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7944	0.46682	'GEN335614 1-WILLOW GLENN UNIT#4'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7619	0.46682	'GEN335615 1-WILLOW GLENN UNIT#5'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	109.7941	0.46682	'GEN335831 1-RIVERBEND UNIT#1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	110.3079	0.46682	'GEN336153 1-WATERFORD UNIT#3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8324	0.46682	'GEN336167 1-GULF OXY U1'

SOURCE	GROUP DISPATCH	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%LOADING	TDF	CONTNAME
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8	0.46682	'GEN336191 1-LITTLE GYPSY UNIT#3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107	0.46682	'GEN336251 1-NINEMILE POINT UNIT#4'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7936	0.46682	'GEN336464 1-MICHOUD UNIT #3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.8838	0.46682	'GEN336801 1-BAXTER WILSON UNIT #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	110.7221	0.46682	'GEN336821 1-GRAND GULF UNIT'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.0952	0.46682	'GEN336831 1-BAXTER WILSON SES'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8354	0.46682	'GEN337006 1-DUKE MCADAMS G1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8354	0.46682	'GEN337007 1-DUKE MCADAMS G2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8242	0.46682	'GEN337008 1-DUKE MCADAMS S1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	108.678	0.46682	'GEN337041 1-GERALD ANDRUS'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7696	0.46682	'GEN337125 6-LS POWER BATESVILLE'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7672	0.46682	'GEN337421 1-OUCHITA CTG1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8808	0.46682	'GEN337428 1-PERYVILLE UNIT #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8654	0.46682	'GEN337429 1-PERYVILLE UNIT #2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8644	0.46682	'GEN337432 1-PERYVILLE UNIT #5'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8644	0.46682	'GEN337433 1-PERYVILLE UNIT #6'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	109.0306	0.46682	'GEN337652 1-WHITE BLUFF UNIT #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	109.0468	0.46682	'GEN337653 1-WHITE BLUFF UNIT #2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7946	0.46682	'GEN337692 1-LAKE CATHERINE UNIT #4'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	109.3975	0.46682	'GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	110.0139	0.46682	'GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	109.0516	0.46682	'GEN338146 1-INDEPENDENCE UNIT #2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.0278	0.46682	'GEN338189 1-LS POWER OSCEOLA UNIT G1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	108.0327	0.46682	'GEN501812 1-RODEMACHER UNIT 2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	108.287	0.46682	'GEN501813 1-RODEMACHER UNIT 3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8764	0.46682	'GEN501823 1-TECHE UNIT 3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.666	0.46682	'GEN501910 1-ACADIA UNIT ST1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.0098	0.46682	'GEN505432 1-SIKESTON'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.6391	0.46682	'GEN506750 1-EASTMAN GENERATION B'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.6364	0.46682	'GEN506751 1-EASTMAN GENERATION C'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8749	0.46682	'GEN506752 1-LEBROCK GAS 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7122	0.46682	'GEN506753 1-LEBROCK GAS 2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.9849	0.46682	'GEN509394 1-FLINT CREEK'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	108.2251	0.46682	'GEN509403 1-PIRKEY GENERATION'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.8049	0.46682	'GEN509404 1-WELSH #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.8049	0.46682	'GEN509405 1-WELSH #2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.805	0.46682	'GEN509406 1-WELSH #3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.699	0.46682	'GEN511836 1-NORTHEASTERN STATION #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7514	0.46682	'GEN511837 1-NORTHEASTERN STATION # 1-1A'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7514	0.46682	'GEN511838 1-NORTHEASTERN STATION # 1-1B'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.7662	0.46682	'GEN511839 1-NORTHEASTERN STATION #2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.8279	0.46682	'GEN511840 1-NORTHEASTERN STATION #3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.8112	0.46682	'GEN511841 1-NORTHEASTERN STATION #4'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.8467	0.46682	'GEN511842 1-RIVERSIDE STATION #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.8755	0.46682	'GEN511843 1-RIVERSIDE STATION #2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7942	0.46682	'GEN511858 1-TULSA POWER STATION # 4-1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.6335	0.46682	'GEN511953 G-COGENTRIX GAS # 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.6302	0.46682	'GEN511954 S-COGENTRIX STEAM # 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	108.057	0.46682	'GEN512688 2-GRDA1 GSU2 22'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.7356	0.46682	'GEN512689 1-GRDA1 GSU1 22'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.973	0.46682	'GEN514805 1-SOONER UNIT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	108.3379	0.46682	'GEN514806 1-SOONER UNIT 2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.0257	0.46682	'GEN514899 1-REDBUD1S'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.0257	0.46682	'GEN514900 1-REDBUD2S'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.1333	0.46682	'GEN514910 2-REDBUD GEN'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.1333	0.46682	'GEN514911 2-REDBUD GEN'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.9586	0.46682	'GEN514998 1-MCCLAIN UNIT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.9586	0.46682	'GEN514999 1-MCCLAIN UNIT 2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.8637	0.46682	'GEN515000 1-MCCLAIN UNIT 3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.6215	0.46682	'GEN515040 1-SEMINOLE 1G'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.0699	0.46682	'GEN515041 1-SEMINOLE 2G'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.9629	0.46682	'GEN515042 1-SEMINOLE 3G'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	108.1295	0.46682	'GEN515223 1-MUSKOGEE 4G'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	108.1517	0.46682	'GEN515225 1-MUSKOGEE 5G'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	108.1441	0.46682	'GEN515226 1-MUSKOGEE 6G'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7928	0.46682	'GEN515266 1-AES 1G'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	106.7928	0.46682	'GEN515267 1-AES 2G'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	101.8151	0.46682	'GEN515364 1-CENT 11 0.6000'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	102.63	0.46682	'GEN515397 1-OUSPR1 34.500'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	103.521	0.46682	'GEN515790 1-FPLWIND2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	103.6111	0.46682	'GEN520922 1-SLEEPING 138.00'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	TO->FROM'	1195	1195	107.8232	0.46682	'GEN520947 1-HUGO1'

SOURCE	GROUP DISPATCH	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%LOADING	TDF	CONTNAME
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.2752	0.46682	'GEN521116 1-RHWIND4 138.00'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.7834	0.46682	'GEN521120 1-BUFBEAR2 69.000'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.6872	0.46682	'GEN522814 1-LUBBOCK POWER & LIGHT-MACKENZIE GEN'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.8981	0.46682	'GEN523103 1-NOBLE_WND 3 115.00'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.8928	0.46682	'GEN523272 1-G07-05 0.6900'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.3151	0.46682	'GEN523461 1-BLACKHAWK GEN #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.3152	0.46682	'GEN523462 1-BLACKHAWK GEN #2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	103.0291	0.46682	'GEN523971 1-HARRINGTON GEN #1 24 KV'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	103.0197	0.46682	'GEN523972 1-HARRINGTON GEN #2 24 KV'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.9112	0.46682	'GEN524285 1-WILDORADO WIND GEN'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.9134	0.46682	'GEN524895 1-SAN JUAN MESA WIND GEN'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	102.7571	0.46682	'GEN526331 1-JONES GEN #1 22 KV'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	102.7562	0.46682	'GEN526332 1-JONES GEN #2 21 KV'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	104.3004	0.46682	'GEN527161 1-MUSTANG GEN #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	104.3008	0.46682	'GEN527162 1-MUSTANG GEN #2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	104.1811	0.46682	'GEN527163 1-MUSTANG GEN #3 22 KV'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	104.3036	0.46682	'GEN527164 1-MUSTANG GEN #4 22 KV'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	104.3059	0.46682	'GEN527165 1-Mustang Gen #5'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	103.6801	0.46682	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	104.2869	0.46682	'GEN527901 1-HOBBS PLANT #1 (CT)'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	104.2869	0.46682	'GEN527902 1-HOBBS PLANT #2 (CT)'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	103.4974	0.46682	'GEN527903 1-HOBBS PLANT #3 (ST)'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.7015	0.46682	'GEN528361 1-MADDOX GEN #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.4787	0.46682	'GEN531447 1-HOLCOMB GENERATOR'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	107.7716	0.46682	'GEN532651 1-JEFFREY ENERGY CENTER UNIT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	107.7787	0.46682	'GEN532652 1-JEFFREY ENERGY CENTER UNIT 2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	107.7787	0.46682	'GEN532653 1-JEFFREY ENERGY CENTER UNIT 3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	106.9363	0.46682	'GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	107.1808	0.46682	'GEN532722 1-EVANS ENERGY CENTER UNIT 2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	109.941	0.46682	'GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	107.1218	0.46682	'GEN541151 3-SIBLEY GENERATING UNIT #3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	107.602	0.46682	'GEN542951 5-HAWTHORN UNIT #5'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	106.698	0.46682	'GEN542952 1-MONTROSE UNIT #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	106.6832	0.46682	'GEN542953 2-MONTROSE UNIT #2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	106.7001	0.46682	'GEN542954 3-MONTROSE UNIT #3'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	108.1846	0.46682	'GEN542955 1-LACYGNE UNIT #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	108.0431	0.46682	'GEN542956 2-LACYGNE UNIT #2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	107.7358	0.46682	'GEN542957 1-IATAN UNIT #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	106.7608	0.46682	'GEN546702 1-NM GEN N1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	106.8816	0.46682	'GEN547649 1-ASBURY UNIT #1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	106.7599	0.46682	'GEN547656 1-STATE LINE UNIT #2'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	106.7649	0.46682	'GEN549890 1-SOUTHWEST 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.8336	0.46682	'GEN560020 1-G06-35 0.5750'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.7926	0.46682	'GEN560074 1-G05-15 0.6900'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.8088	0.46682	'GEN560077 1-G08-14 0.6900'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.4297	0.46682	'GEN560080 1-G08-16 34.500'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.292	0.46682	'GEN560111 1-G06-39 0.6900'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.6858	0.46682	'GEN560114 1-G06-45 0.6000'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.0044	0.46682	'GEN560117 1-G07-06 0.6000'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	103.0216	0.46682	'GEN560152 1-G06-46 0.6000'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.6866	0.46682	'GEN560162 1-G06-47 0.6000'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.2656	0.46682	'GEN560166 1-G07-48 0.6900'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.917	0.46682	'GEN560179 1-G07-46 0.6900'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	100.8626	0.46682	'GEN560183 1-G07-51 0.6000'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.6302	0.46682	'GEN560359 1-G08-51 0.6900'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	105.8374	0.46682	'GEN560502 1-G07-34 0.5750'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	104.9446	0.46682	'GEN599891 1-OKLAUN'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	107.6536	0.46682	'GEN640009 1-COOPER NUCLEAR STATION'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	107.1064	0.46682	'GEN645001 1-FORT CALHOUN 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	107.4052	0.46682	'GEN645011 1-NEBRASKA CITY 1'
G08_029	1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	107.4674	0.46682	'GEN645012 2-NEBRASKA CITY 2'
G08_038	8	10G	'BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1'	'TO->FROM'	120	133	114.8181	0.53774	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1'	'TO->FROM'	120	133	110.2062	0.53775	'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'DOMES - MOUND ROAD 138KV CKT 1'	'FROM->TO'	172	192	123.8578	0.78561	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'DOMES - MOUND ROAD 138KV CKT 1'	'FROM->TO'	172	192	119.1816	0.78561	'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'DOMES - PAWUHUSKA TAP 138KV CKT 1'	'TO->FROM'	172	192	125.7903	0.78561	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'DOMES - PAWUHUSKA TAP 138KV CKT 1'	'TO->FROM'	172	192	121.1091	0.78561	'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'FAIRFAX 138/69KV TRANSFORMER CKT 1'	'FROM->TO'	56	56	185.0425	0.21439	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'FAIRFAX 138/69KV TRANSFORMER CKT 1'	'FROM->TO'	56	56	179.6111	0.21439	'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_038	8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192	140.9493	0.82793	'PAWUHUSKA TAP - WEST PAWUHUSKA 138KV CKT 1'
G08_038	8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192	141.4431	0.82793	'G08-38T 138.00 - WEST PAWUHUSKA 138KV CKT 1'
G08_038	8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192	135.7311	0.82793	'DOMES - MOUND ROAD 138KV CKT 1'

SOURCE	GROUP	DISPATCH	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%	LOADING	TDF	CONTNAME
G08_038		8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192	137.3643	0.82793		'DOMES - PAWHUSKA TAP 138KV CKT 1'
G08_038		8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192	105.3898	0.52464		'FAIRFAX 138/69KV TRANSFORMER CKT 1'
G08_038		8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192	105.4127	0.52464		'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'
G08_038		8	10G	'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'	'FROM->TO'	172	192	101.0942	0.46698		'GEN514805 1-SOONER UNIT 1'
G08_038		8	10G	'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'	'FROM->TO'	143	143	175.6795	0.78561		'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038		8	10G	'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'	'FROM->TO'	143	143	169.3777	0.78561		'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_038		8	10G	'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'	'FROM->TO'	143	143	106.0879	0.47536		'FAIRFAX 138/69KV TRANSFORMER CKT 1'
G08_038		8	10G	'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'	'FROM->TO'	143	143	106.0981	0.47536		'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'
G08_038		8	10G	'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'	'FROM->TO'	143	143	101.851	0.43943		'GEN511839 1-NORTHEASTERN STATION #2'
G08_038		8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170	105.2503	0.46698		'BASE CASE'
G08_038		8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170	152.5103	0.82793		'PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1'
G08_038		8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170	153.0658	0.82793		'G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1'
G08_038		8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170	146.6435	0.82793		'DOMES - MOUND ROAD 138KV CKT 1'
G08_038		8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170	148.4794	0.82793		'DOMES - PAWHUSKA TAP 138KV CKT 1'
G08_038		8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170	102.8606	0.55556		'BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1'
G08_038		8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170	112.5541	0.52464		'FAIRFAX 138/69KV TRANSFORMER CKT 1'
G08_038		8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170	112.5807	0.52464		'AECI-4 & 6 138.00 - FAIRFAX 138KV CKT 1'
G08_038		8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170	106.2	0.46698		'SOONER 138/22.0KV TRANSFORMER CKT 1'
G08_038		8	10G	'OSAGE - WEBB CITY TAP 138KV CKT 1'	'TO->FROM'	147	170	107.6236	0.46698		'GEN514805 1-SOONER UNIT 1'
G08_038		8	10G	'PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1'	'TO->FROM'	172	192	130.2427	0.78561		'FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1'
G08_038		8	10G	'PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1'	'TO->FROM'	172	192	125.5483	0.78561		'OSAGE - WEBB CITY TAP 138KV CKT 1'
G08_051		2	10G	'BECKHAM CO 230.00 - ELK CITY 230KV 230KV CKT 1'	'FROM->TO'	319	351	143.075	0.24232		'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_051		6	10G	'BECKHAM CO 230.00 - ELK CITY 230KV 230KV CKT 1'	'FROM->TO'	319	351	101.9022	0.24491		'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_051		2	10G	'BECKHAM CO 230.00 - STATELINE INTERCHANGE 230KV CKT 1'	'TO->FROM'	319	351	118.3701	0.24232		'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_051		2	10G	BLOWN UP	'TO->FROM'	956	1052	91.54452	0.38197		'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_051		5	10G	BLOWN UP	'TO->FROM'	956	1052	49.29767	0.38495		'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_051		5	10G	BLOWN UP	'TO->FROM'	956	1052	61.69436	0.38495		'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_051		5	10G	'DEAF SMITH COUNTY INTERCHANGE - G06-39T 230.00 230KV CKT 1'	'TO->FROM'	319	351	121.5337	0.20546		'G06-39T 230.00 - PLANT X STATION 230KV CKT 1'
G08_051		2	10G	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	287	287	158.2372	0.24232		'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_051		2	10G	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	287	287	149.6471	0.24232		'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_051		6	10G	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	287	287	108.4445	0.24491		'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_051		6	10G	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	287	287	106.7713	0.24491		'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_051		6	10G	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	287	287	119.352	0.24491		'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_051		6	10G	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	287	287	117.0705	0.24491		'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_051		7	10G	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	287	287	110.3316	0.24513		'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_051		7	10G	'ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	287	287	109.1923	0.24513		'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_051		2	10G	'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'	'TO->FROM'	956	1052	109.7664	0.42708		'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'
G08_051		2	10G	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	'TO->FROM'	319	351	120.5072	0.2214		'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_051		2	10G	'HARRINGTON STATION - NICHOLS STATION 230KV CKT 1'	'FROM->TO'	478	617	105.1226	0.2703		'Harrington Station Mid Bus - NICHOLS STATION 230KV CKT 2'
G08_051		2	10G	'Harrington Station Mid Bus - NICHOLS STATION 230KV CKT 2'	'FROM->TO'	478	617	104.8672	0.26966		'HARRINGTON STATION - NICHOLS STATION 230KV CKT 1'
G08_051		1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	109.6181	0.19894		'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_051		1	10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	112.8935	0.19894		'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_051		2	10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	'FROM->TO'	515	560	113.5629	0.27282		'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'
G08_051		2	10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	'FROM->TO'	515	560	113.8977	0.27282		'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'
G08_051		5	10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	'FROM->TO'	515	560	125.7502	0.27499		'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'
G08_051		5	10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	'FROM->TO'	515	560	125.8037	0.27499		'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'
G08_051		2	10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'	'FROM->TO'	515	560	113.8977	0.27282		'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
G08_051		2	10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'	'FROM->TO'	515	560	125.7502	0.27499		'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
G08_051		5	10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'	'FROM->TO'	515	560	125.8037	0.27499		'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'
G08_079		3	10G	'CIRCLE - MULLERGREEN 230KV CKT 1'	'TO->FROM'	319	319	116.2762	0.21058		'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
G08_079		3	10G	'CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1'	'FROM->TO'	110	110	141.0269	0.21973		'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
G08_079		3	10G	'CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1'	'FROM->TO'	110	110	141.2943	0.21973		'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
G08_079		3	10G	'CLEARWATER - MILAN TAP 138KV CKT 1'	'TO->FROM'	110	110	152.6632	0.21973		'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
G08_079		3	10G	'CLEARWATER - MILAN TAP 138KV CKT 1'	'TO->FROM'	110	110	153.0732	0.21973		'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
G08_079		3	10G	'G01-39AT 115.00 - GREENSBURG 115KV CKT 1'	'FROM->TO'	120.7	129.5	115.3721	0.20756		'CUDAHY - G08-79T 115.00 115KV CKT 1'
G08_079		3	10G	'G01-39AT 115.00 - GREENSBURG 115KV CKT 1'	'FROM->TO'	120.7	129.5	110.1944	0.41152		'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
G08_079		3	10G	'G01-39AT 115.00 - GREENSBURG 115KV CKT 1'	'FROM->TO'	120.7	129.5	127.7345	0.41152		'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
G08_079		3	10G	'G01-39AT 115.00 - GREENSBURG 115KV CKT 1'	'FROM->TO'	120.7	129.5	126.1542	0.41152		'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
G08_079		3	10G	'GREENSBURG - SUN CITY 115KV CKT 1'	'FROM->TO'	120.7	129.5	105.8	0.20756		'CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1'
G08_079		3	10G	'GREENSBURG - SUN CITY 115KV CKT 1'	'FROM->TO'	120.7	129.5	106.1	0.20756		'CUDAHY - KISMET 3 115.00 115KV CKT 1'
G08_079		3	10G	'GREENSBURG - SUN CITY 115KV CKT 1'	'FROM->TO'	120.7	129.5	106.8196	0.20756		'CUDAHY - G08-79T 115.00 115KV CKT 1'
G08_079		3	10G	'GREENSBURG - SUN CITY 115KV CKT 1'	'FROM->TO'	120.7	129.5	101.7257	0.41152		'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
G08_079		3	10G	'GREENSBURG - SUN CITY 115KV CKT 1'	'FROM->TO'	120.7	129.5	119.146	0.41152		'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
G08_079		3	10G	'GREENSBURG - SUN CITY 115KV CKT 1'	'FROM->TO'	120.7	129.5	117.5764	0.41152		'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
G08_079		3	10G	'HARPER - MILAN TAP 138KV CKT 1'	'FROM->TO'	95.6	95.6	188.9953	0.21973		'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
G08_079		3	10G	'HARPER - MILAN TAP 138KV CKT 1'	'FROM->TO'	95.6	95.6	189.4907	0.21973		'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'
G08_079		4	10G	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336	108.9	0.21085		'G08-17 345.00 - SETAB 345KV CKT 1'
G08_079		4	10G	'HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336	108.9	0.21085		'G08-17 345.00 345/34.5KV TRANSFORMER CKT 1'
G08_079		3	10G	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	'TO->FROM'	120.7	129.5	104.5421	0.20756		'CUDAHY - G08-79T 115.00 115KV CKT 1'
G08_079		3	10G	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	'TO->FROM'	120.7	129.5	116.879	0.41152		'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
G08_079		3	10G	'MEDICINE LODGE - SUN CITY 115KV CKT 1'	'TO->FROM'	120.7	129.5	115.3056	0.41152		'SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1'

SOURCE	GROUP DISPATCH	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%LOADING	TDF	CONTNAME
G08_079		2 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		115.0098	0.19848 'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'
G08_079		2 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		155.7402	0.27301 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G08_079		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		150.2574	0.19911 'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'
G08_079		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		209.5345	0.27394 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G08_079		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		139.5808	0.21432 'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_079		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		132.3588	0.21432 'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_079		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		122.0252	0.20444 'GRAY CO 345.00 - HOLCOMB 345KV CKT 1'
G08_079		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		109.0271	0.20444 'GRAY CO 345.00 - SPEARVILLE 345KV CKT 1'
G08_079		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		118.3952	0.19506 'CUDAHY - G08-79T 115.00 115KV CKT 1'
G08_079		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		130.2266	0.4586 'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'
G08_079		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		125.4641	0.22096 'SPP-MKEC-09B'
G08_079		4 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		110.2496	0.27439 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G08_079		5 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		124.7066	0.27441 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G08_079		3 10G	'NINNES3 115.00 - ST JOHN 115KV CKT 1'	'FROM->TO'	79.7	79.7		116.1489	0.19179 'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
G08_079		3 10G	'NINNES3 115.00 - ST JOHN 115KV CKT 1'	'FROM->TO'	79.7	79.7		116.2208	0.19179 'SPEARVILLE (SPEARVL) 230/115/13.8KV TRANSFORMER CKT 1'
G08_079		3 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336		125.7074	0.53084 'MULLERGREEN - SPEARVILLE 230KV CKT 1'
G08_079		3 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336		126.5394	0.53084 'MULLERGREEN - SPEARVILLE 230KV CKT 1'
G08_092		2 10G	'CIRCLE - MULLERGREEN 230KV CKT 1'	'TO->FROM'	319	319		106.5931	0.21886 'KNOLL 230 - SMOKYHLLS6 230.00 230KV CKT 1'
G08_092		2 10G	'CIRCLE - MULLERGREEN 230KV CKT 1'	'TO->FROM'	319	319		111.7753	0.21886 'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'
G08_092		3 10G	'CIRCLE - MULLERGREEN 230KV CKT 1'	'TO->FROM'	319	319		135.4164	0.19014 'AXTELL - KNOLL345 345.00 345KV CKT 1'
G08_092		3 10G	'CIRCLE - MULLERGREEN 230KV CKT 1'	'TO->FROM'	319	319		139.5469	0.2194 'KNOLL 230 - SMOKYHLLS6 230.00 230KV CKT 1'
G08_092		3 10G	'CIRCLE - MULLERGREEN 230KV CKT 1'	'TO->FROM'	319	319		144.942	0.2194 'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'
G08_092		3 10G	'KNOLL 230 - SMOKYHLLS6 230.00 230KV CKT 1'	'FROM->TO'	319	319		109.6747	0.28343 'AXTELL - KNOLL345 345.00 345KV CKT 1'
G08_092		3 10G	'KNOLL 230 - SMOKYHLLS6 230.00 230KV CKT 1'	'FROM->TO'	319	319		101.7772	0.25255 'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_092		3 10G	'KNOLL 230 - SMOKYHLLS6 230.00 230KV CKT 1'	'FROM->TO'	319	319		113.8085	0.26664 'CIRCLE - MULLERGREEN 230KV CKT 1'
G08_092		2 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		100.2839	0.26616 'CIRCLE - MULLERGREEN 230KV CKT 1'
G08_092		3 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		120.1556	0.28343 'AXTELL - KNOLL345 345.00 345KV CKT 1'
G08_092		3 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		100.4062	0.22509 'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'
G08_092		3 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		111.613	0.25255 'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_092		3 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		105.2978	0.25255 'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_092		3 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		100.5349	0.2288 'MINGO - RED WILLOW 345KV CKT 1'
G08_092		3 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		124.2616	0.26664 'CIRCLE - MULLERGREEN 230KV CKT 1'
G08_092		3 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		101.3041	0.23323 'AXTELL - PAULINE 345KV CKT 1'
G08_092		3 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		101.4974	0.22929 'GRAND ISLAND - SWEETWATER 345KV CKT 1'
G08_092		3 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		108.1	0.22497 'COOPER 345/22.0KV TRANSFORMER CKT 1'
G08_092		3 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		100.3921	0.22497 'GEN532652 1-JEFFREY ENERGY CENTER UNIT 2'
G08_092		3 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		100.3944	0.22497 'GEN532653 1-JEFFREY ENERGY CENTER UNIT 3'
G08_092		3 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		102.7784	0.22497 'GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1'
G08_092		11 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		106.8598	0.28416 'AXTELL - KNOLL345 345.00 345KV CKT 1'
G08_092		11 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		100.7947	0.28718 'MULLERGREEN - S HAYS6 230.00 230KV CKT 1'
G08_092		11 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		109.4399	0.2675 'CIRCLE - MULLERGREEN 230KV CKT 1'
G08_092		11 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		105	0.22563 'COOPER 345/22.0KV TRANSFORMER CKT 1'
G08_092		11 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		100.4116	0.22563 'GEN532651 1-JEFFREY ENERGY CENTER UNIT 1'
G08_092		11 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		100.8117	0.22563 'GEN532652 1-JEFFREY ENERGY CENTER UNIT 2'
G08_092		11 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		100.813	0.22563 'GEN532653 1-JEFFREY ENERGY CENTER UNIT 3'
G08_092		11 10G	'SMOKYHLLS6 230.00 - SUMMIT 230KV CKT 1'	'FROM->TO'	319	319		103.101	0.22563 'GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1'
G08_124		3 10G	'CIRCLE - MULLERGREEN 230KV CKT 1'	'TO->FROM'	319	319		137.4315	0.19481 'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_124		3 10G	'CIRCLE - MULLERGREEN 230KV CKT 1'	'TO->FROM'	319	319		129.763	0.19481 'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_124		3 10G	'CIRCLE - MULLERGREEN 230KV CKT 1'	'TO->FROM'	319	319		115.3764	0.19845 'GRAY CO 345.00 - HOLCOMB 345KV CKT 1'
G08_124		3 10G	'CIRCLE - MULLERGREEN 230KV CKT 1'	'TO->FROM'	319	319		108.0883	0.19845 'GRAY CO 345.00 - SPEARVILLE 345KV CKT 1'
G08_124		3 10G	'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'	'FROM->TO'	448	448		105.8656	0.25414 'AXTELL - KNOLL345 345.00 345KV CKT 1'
G08_124		3 10G	'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'	'FROM->TO'	448	448		109.3617	0.24062 'MULLERGREEN - SPEARVILLE 230KV CKT 1'
G08_124		2 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		115.0098	0.2386 'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'
G08_124		2 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		155.7402	0.33638 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G08_124		2 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		100.8197	0.2003 'HOLCOMB - SETAB 345KV CKT 1'
G08_124		2 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		106.1375	0.20194 'MINGO - SETAB 345KV CKT 1'
G08_124		2 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		100.9315	0.19865 'MINGO - RED WILLOW 345KV CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		150.2574	0.23922 'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		209.5345	0.3373 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		124.1421	0.19481 'AXTELL - KNOLL345 345.00 345KV CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		139.5808	0.22956 'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		132.3588	0.22956 'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		129.1186	0.20102 'HOLCOMB - SETAB 345KV CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		122.0252	0.29196 'GRAY CO 345.00 - HOLCOMB 345KV CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		135.0485	0.20263 'MINGO - SETAB 345KV CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		131.4019	0.19927 'MINGO - RED WILLOW 345KV CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		109.0271	0.29196 'GRAY CO 345.00 - SPEARVILLE 345KV CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		115.8126	0.19618 'JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		112.9556	0.19618 'NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		113.1672	0.19618 'SPEARVILLE (SPEARVL) 230/115/13.8KV TRANSFORMER CKT 1'
G08_124		3 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		125.4641	0.19612 'SPP-MKEC-09B'
G08_124		4 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3		110.2496	0.33775 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'

SOURCE	GROUP DISPATCH	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%	LOADING	TDF	CONTNAME
G08_124		5 10G	'MULLERGREEN - SPEARVILLE 230KV CKT 1'	'TO->FROM'	330.3	355.3			124.7066	0.33777 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G08_124		2 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336			102.2953	0.29292 'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'
G08_124		2 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336			102.3061	0.29292 'KNOLL345 345.00 345/230KV TRANSFORMER CKT 1'
G08_124		2 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336			149.3615	0.40835 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G08_124		2 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336			148.5922	0.40835 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G08_124		5 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336			117.1168	0.40988 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G08_124		5 10G	'SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1'	'FROM->TO'	336	336			116.9234	0.40988 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G09_016		1 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			111.3563	0.33821 'CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1'
G09_016		1 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			110.4174	0.33821 'CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1'
G09_016		1 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			110.3445	0.25342 'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'
G09_016		1 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			104.6447	0.26606 'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			103.2519	0.25239 'BASE CASE'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			111.2667	0.253 'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			105.8503	0.25274 'AXTELL - KNOLL345 345.00 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			106.4413	0.26401 'CACHE - SNYDER 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			112.7242	0.28566 'CARNEGIE - HOBART JUNCTION 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			111.7977	0.28566 'CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			132.6007	0.33735 'CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			131.6322	0.33735 'CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			139.1039	0.25251 'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			124.7915	0.25251 'G05-15T 345.00 - OKLAUNION 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			106.784	0.27615 'ELK CITY - RHWIND4 138.00 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			111.1121	0.26689 'ELK CITY - ELK CITY 69KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			106.5783	0.25923 'HOBART JUNCTION - TAMARAC TAP 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			101.3	0.25239 'G08-23 138.00 - HOBART JUNCTION 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			105.8688	0.25276 'ANADARK7 345.00 - LAWTON EASTSIDE 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			105.4	0.26401 'LAWTON 112TH & WEST GORE - LAWTON AIRGAS TAP 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			106.5197	0.25923 'OMPA-ALTUS TAMARACK - TAMARAC TAP 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			105.9	0.26401 'CACHE - LAWTON AIRGAS TAP 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			100.62	0.25239 'WEATHERFORD - WEATHERFORD TAP 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			105.4044	0.25377 'CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			106.6562	0.25354 'DEWEY - SOUTHARD 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			105.4915	0.25377 'GLASS MOUNTAIN - MOORELAND 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			107.2823	0.25354 'EL RENO - ROMAN NOSE 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			106.008	0.25354 'ROMAN NOSE - SOUTHARD 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			126.8959	0.25884 'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			119.6612	0.25884 'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			109.6269	0.25194 'MIDPT_BUS 7 345.00 - WWRDEHV7 345.00 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			100.3	0.25239 'G07-62 345.00 - WWRDEHV7 345.00 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			110.4	0.25239 'G07-32 138.00 - G07-32T 138.00 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			108.245	0.26689 'CARTER JCT - DILL JCT 69KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			108.2429	0.26689 'CARTER JCT - LAKE CREEK 69KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			109.2033	0.26689 'DILL JCT - ELK CITY 69KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			113.1883	0.3161 'MOORELAND - MOREWOOD SW 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			110.0289	0.27615 'MOREWOOD SW - RHWIND4 138.00 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			128.7637	0.265 'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			100.6977	0.25387 'NICHOLS STATION - YARNELL SUB 115KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			100.7007	0.25387 'CONWAY SUB - YARNELL SUB 115KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			100.1442	0.25387 'CONWAY SUB - KIRBY SWITCHING STATION 115KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			107.2119	0.25346 'AMARILLO SOUTH INTERCHANGE - G07-48T 230.00 230KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			111.0543	0.25239 'PNM BLACKWATER DC TIE - Roosevelt County Interchange SOUTH 230KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			107.5473	0.2533 'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			109.0817	0.25346 'G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			107.5443	0.25222 'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			109.6392	0.25194 'MIDPT_BUS 7 345.00 - TUCO INTERCHANGE 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			122.6825	0.25251 'G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			105.7064	0.25923 'OMPA-ALTUS TAMARACK - OMPVET-4 138.00 138KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			106.0216	0.2525 'SMOKYHILLS6 230.00 - SUMMIT 230KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			108.2056	0.25322 'HOLCOMB - SETAB 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			116.4785	0.25396 'GRAY CO 345.00 - HOLCOMB 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			110.9056	0.2534 'MINGO - SETAB 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			110.3166	0.25348 'MINGO - RED WILLOW 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			117.5092	0.25396 'GRAY CO 345.00 - SPEARVILLE 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			106.3056	0.25251 'CIRCLE - MULLERGREEN 230KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			106.3872	0.25256 'MULLERGREEN - SPEARVILLE 230KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			106.1	0.25239 'G06-49 345.00 - STEVENS CO 345.00 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			100.4	0.25239 'BECKHAM EHV 230.00 - G06-43 230.00 230KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			105.8232	0.25249 'GRAND ISLAND - SWEETWATER 345KV CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			113.7458	0.26689 'ELK CITY (ELKCTY-4) 138/69/13.8KV TRANSFORMER CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			109.5	0.25239 'WEATHERFORD WIND FARM 138/34.5KV TRANSFORMER CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			110.4	0.25239 'G07-32 138.00 138/34.5KV TRANSFORMER CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143			101.2	0.25239 'G08-23 138.00 138/34.5KV TRANSFORMER CKT 1'

SOURCE	GROUP DISPATCH	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%LOADING	TDF	CONTNAME
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	100.4	0.25239	'G06-43 230.00 230/34.5KV TRANSFORMER CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	108.6	0.25239	'COOPER 345/22.0KV TRANSFORMER CKT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.5875	0.25239	'GEN300006 1-NEW MADRID UNIT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.5823	0.25239	'GEN300007 1-NEW MADRID UNIT 2'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	105.735	0.25239	'GEN335137 2-PPG'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	110.7156	0.25239	'GEN335831 1-RIVERBEND UNIT#1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	111.818	0.25239	'GEN336153 1-WATERFORD UNIT#3'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.7505	0.25239	'GEN336801 1-BAXTER WILSON UNIT #1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	112.3789	0.25239	'GEN336821 1-GRAND GULF UNIT'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	108.2506	0.25239	'GEN337041 1-GERALD ANDRUS'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.0034	0.25239	'GEN337652 1-WHITE BLUFF UNIT #1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.0182	0.25239	'GEN337653 1-WHITE BLUFF UNIT #2'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.7928	0.25239	'GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	111.0853	0.25239	'GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	108.9511	0.25239	'GEN338146 1-INDEPENDENCE UNIT #2'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	107.202	0.25239	'GEN501812 1-RODEMACHER UNIT 2'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	107.7663	0.25239	'GEN501813 1-RODEMACHER UNIT 3'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.8597	0.25239	'GEN509394 1-FLINT CREEK'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	107.8858	0.25239	'GEN509403 1-PIRKEY GENERATION'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	107.0784	0.25239	'GEN509404 1-WELSH #1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	107.0785	0.25239	'GEN509405 1-WELSH #2'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	107.0785	0.25239	'GEN509406 1-WELSH #3'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.4085	0.25239	'GEN511839 1-NORTHEASTERN STATION #2'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.507	0.25239	'GEN511840 1-NORTHEASTERN STATION #3'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.4727	0.25239	'GEN511841 1-NORTHEASTERN STATION #4'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.6101	0.25239	'GEN511842 1-RIVERSIDE STATION #1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.6701	0.25239	'GEN511843 1-RIVERSIDE STATION #2'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	107.2529	0.25239	'GEN511848 1-SOUTHWESTERN STATION #3'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	108.9944	0.25239	'GEN511952 1-WEATHERFORD WIND FARM TURBINES'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.98	0.25239	'GEN512688 2-GRDA1 GSU2 22'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.3366	0.25239	'GEN512689 1-GRDA1 GSU1 22'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.9288	0.25239	'GEN514805 1-SOONER UNIT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	107.1641	0.25239	'GEN514806 1-SOONER UNIT 2'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	107.3254	0.25239	'GEN515223 1-MUSKOGEE 4G'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	107.3651	0.25239	'GEN515225 1-MUSKOGEE 5G'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	107.3486	0.25239	'GEN515226 1-MUSKOGEE 6G'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	110.8684	0.25239	'GEN520603 1-G07-32 12.000'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	107.3201	0.25239	'GEN520947 1-HUGO1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	105.9429	0.25239	'GEN532651 1-JEFFREY ENERGY CENTER UNIT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	105.9633	0.25239	'GEN532652 1-JEFFREY ENERGY CENTER UNIT 2'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	105.9632	0.25239	'GEN532653 1-JEFFREY ENERGY CENTER UNIT 3'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	110.0456	0.25239	'GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	105.7235	0.25239	'GEN542951 5-HAWTHORN UNIT #5'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.9186	0.25239	'GEN542955 2-LACYGNE UNIT #1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.6526	0.25239	'GEN542956 2-LACYGNE UNIT #2'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	105.8932	0.25239	'GEN542957 1-IATAN UNIT #1'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	100.2922	0.25239	'GEN560045 1-G05-17-1 34.500'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	100.2922	0.25239	'GEN560049 1-G05-17-3 34.500'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	100.605	0.25239	'GEN560055 1-G06-44-2 0.6000'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	100.5402	0.25239	'GEN560111 1-G06-39 0.6900'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	100.3107	0.25239	'GEN560166 1-G07-48 0.6900'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	101.4483	0.25239	'GEN560290 1-G08-23 0.5750'
G09_016		2 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	100.5495	0.25239	'GEN560302 1-G06-43 0.6000'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	106.6369	0.25281	'BASE CASE'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	112.7418	0.25344	'KNOLL345 345.00 - SPEARVILLE 345KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	110.0963	0.26445	'CACHE - SNYDER 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	116.6413	0.28614	'CARNEGIE - HOBART JUNCTION 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	115.7102	0.28614	'CARNEGIE - SOUTHWESTERN STATION 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	136.4186	0.33788	'CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	135.4389	0.33788	'CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	130.3048	0.25302	'G05-15T 345.00 - OKLAUNION 345KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	110.3158	0.27659	'ELK CITY - RHWIND4 138.00 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	114.5518	0.26732	'ELK CITY - ELK CITY 69KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.9794	0.25964	'HOBART JUNCTION - TAMARAC TAP 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	104.7	0.25281	'G08-23 138.00 - HOBART JUNCTION 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.3024	0.25318	'ANADARK7 345.00 - LAWTON EASTSIDE 345KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109	0.26445	'LAWTON 112TH & WEST GORE - LAWTON AIRGAS TAP 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.9215	0.25964	'OMPA-ALTUS TAMARACK - TAMARAC TAP 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.5	0.26445	'CACHE - LAWTON AIRGAS TAP 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	102.7	0.25281	'FALCON ROAD - G09-16 138.00 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	103.9834	0.25281	'WEATHERFORD - WEATHERFORD TAP 138KV CKT 1'
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	103.0916	0.25281	'CLINTON NATURAL GAS - CLINTON NATURAL GAS TAP 138KV CKT 1'

GROUP		SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%LOADING	TDF	CONTNAME
SOURCE	DISPATCH								
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	108.8673	0.25419	'CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	103.1222	0.25637	'FPL SWITCH - WOODWARD 138KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	110.1479	0.25396	'DEWEY - SOUTHARD 138KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	108.9537	0.25419	'GLASS MOUNTAIN - MOORELAND 138KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	110.7702	0.25396	'EL RENO - ROMAN NOSE 138KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	104.4541	0.24791	'CIMARRON - JENSEN TAP 138KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.4994	0.25396	'ROMAN NOSE - SOUTHARD 138KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	131.5022	0.2593	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	123.9914	0.2593	'TATONGA EHV 345.00 - WWRDEHV7 345.00 345KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	113.8998	0.25239	'MIDPT_BUS 7 345.00 - WWRDEHV7 345.00 345KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	103.8	0.25281	'G07-62 345.00 - WWRDEHV7 345.00 345KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	102.555	0.25641	'FPL SWITCH - MOORELAND 138KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	113.6	0.25281	'G07-32 138.00 - G07-32T 138.00 138KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	111.6759	0.26732	'CARTER JCT - DILL JCT 69KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	111.6741	0.26732	'CARTER JCT - LAKE CREEK 69KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	112.6387	0.26732	'DILL JCT - ELK CITY 69KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	116.9063	0.31659	'MOORELAND - MOREWOOD SW 138KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	113.5658	0.27659	'MOREWOOD SW - RHWIND4 138.00 138KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	111.0407	0.254	'G05-17T 345.00 - Hitchland Interchange 345KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.8411	0.254	'G05-17T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	103.5169	0.25427	'CONWAY SUB - KIRBY SWITCHING STATION 115KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	104.1	0.25281	'CONWAY SUB - G04-03 115.00 115KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	104.2	0.25281	'G05-21 115.00 - KIRBY SWITCHING STATION 115KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.3607	0.25332	'DEAF SMITH COUNTY INTERCHANGE - G06-39T 230.00 230KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	114.3315	0.25281	'PNM BLACKWATER DC TIE - Roosevelt County Interchange SOUTH 230KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	111.1342	0.25374	'SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	112.7328	0.25391	'G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	111.7027	0.25264	'TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	113.9288	0.25239	'MIDPT_BUS 7 345.00 - TUCO INTERCHANGE 345KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	127.3953	0.25302	'G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.1207	0.25964	'OMPA-ALTUS TAMARACK - OMPVET-4 138.00 138KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.977	0.25365	'HOLCOMB - SETAB 345KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	116.5933	0.25445	'GRAY CO 345.00 - HOLCOMB 345KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	111.9223	0.25385	'MINGO - SETAB 345KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	111.1241	0.25393	'MINGO - RED WILLOW 345KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	117.5886	0.25445	'GRAY CO 345.00 - SPEARVILLE 345KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	100.2	0.25281	'BECKHAM EHV 230.00 - G06-35 230.00 230KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	102.4	0.25281	'BECKHAM EHV 230.00 - G06-02 230.00 230KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	103.8	0.25281	'BECKHAM EHV 230.00 - G06-43 230.00 230KV CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	117.2954	0.26732	'ELK CITY (ELKCTY-4) 138/69/13.8KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	112.9	0.25281	'WEATHERFORD WIND FARM 138/34.5KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	113.6	0.25281	'G07-32 138.00 138/34.5KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	102.5	0.25281	'HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	102.4	0.25281	'Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	100.2	0.25281	'HOLCOMB 115/22.0KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	100.2	0.25281	'G06-35 230.00 230/34.5KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	104.1	0.25281	'G04-03 115.00 115/34.5KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	104.3	0.25281	'G05-21 115.00 115/34.5KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	102.4	0.25281	'G06-02 230.00 230/34.5KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	104	0.25281	'G07-48T 230.00 230/34.5KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	102.7	0.25281	'G09-16 138.00 138/34.5KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	104.7	0.25281	'G08-23 138.00 138/34.5KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	103.8	0.25281	'G06-43 230.00 230/34.5KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	111.6	0.25281	'COOPER 345/22.0KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	102.4	0.25281	'GERALD GENTLEMAN STATION 345/24.0KV TRANSFORMER CKT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.6402	0.25281	'GEN300006 1-NEW MADRID UNIT 1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.6346	0.25281	'GEN300007 1-NEW MADRID UNIT 2'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	110.4422	0.25281	'GEN335206 1-NELSON UNIT 6'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	113.6431	0.25281	'GEN335831 1-RIVERBEND UNIT#1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	114.7175	0.25281	'GEN336153 1-WATERFORD UNIT#3'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	109.8315	0.25281	'GEN336801 1-BAXTER WILSON UNIT #1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	115.4645	0.25281	'GEN336821 1-GRAND GULF UNIT'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	111.4395	0.25281	'GEN337041 1-GERALD ANDRUS'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	112.2209	0.25281	'GEN337652 1-WHITE BLUFF UNIT #1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	112.2305	0.25281	'GEN337653 1-WHITE BLUFF UNIT #2'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	112.8123	0.25281	'GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	114.0733	0.25281	'GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	112.1384	0.25281	'GEN338146 1-INDEPENDENCE UNIT #2'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	111.5285	0.25281	'GEN501801 1-DOLET HILLS UNIT#1'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	110.2984	0.25281	'GEN501812 1-RODEMACHER UNIT 2'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	110.8597	0.25281	'GEN501813 1-RODEMACHER UNIT 3'	
G09_016	5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	TO->FROM'	143	143	110.0192	0.25281	'GEN509394 1-FLINT CREEK'	

SOURCE	GROUP DISPATCH	SEASON	ELEMENT	DIRECTION	RATEA	RATEB	TC%	LOADING	TDF	CONTNAME
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	111.2257	0.25281	'GEN509403 1-PIRKEY GENERATION'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	110.2622	0.25281	'GEN509404 1-WELSH #1'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	110.2623	0.25281	'GEN509405 1-WELSH #2'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	110.2624	0.25281	'GEN509406 1-WELSH #3'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	109.5781	0.25281	'GEN511839 1-NORTHEASTERN STATION #2'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	109.6743	0.25281	'GEN511840 1-NORTHEASTERN STATION #3'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	109.6402	0.25281	'GEN511841 1-NORTHEASTERN STATION #4'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	109.8014	0.25281	'GEN511842 1-RIVERSIDE STATION #1'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	109.8624	0.25281	'GEN511843 1-RIVERSIDE STATION #2'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	110.6246	0.25281	'GEN511848 1-SOUTHWESTERN STATION #3'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	112.3917	0.25281	'GEN511952 1-WEATHERFORD WIND FARM TURBINES'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	110.1237	0.25281	'GEN512686 2-GRDA1 GSU2 22'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	109.4945	0.25281	'GEN512689 1-GRDA1 GSU1 22'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	110.1282	0.25281	'GEN514805 1-SOONER UNIT 1'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	110.3632	0.25281	'GEN514806 1-SOONER UNIT 2'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	110.5171	0.25281	'GEN515223 1-MUSKOGEE 4G'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	110.5649	0.25281	'GEN515225 1-MUSKOGEE 5G'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	110.5483	0.25281	'GEN515226 1-MUSKOGEE 6G'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	114.129	0.25281	'GEN520603 1-G07-32 12.000'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	110.4768	0.25281	'GEN520947 1-HUGO1'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	102.7231	0.25281	'GEN521116 1-RHWIND4 138.00'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	103.0182	0.25281	'GEN523461 1-BLACKHAWK GEN #1'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	103.0183	0.25281	'GEN523462 1-BLACKHAWK GEN #2'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	103.7406	0.25281	'GEN523815 1-LLANO ESTACADO WIND GEN'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	102.2451	0.25281	'GEN524285 1-WILDORADO WIND GEN'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	101.2007	0.25281	'GEN526331 1-JONES GEN #1 22 KV'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	101.1945	0.25281	'GEN526332 1-JONES GEN #2 21 KV'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	103.1051	0.25281	'GEN527161 1-MUSTANG GEN #1'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	103.1052	0.25281	'GEN527162 1-MUSTANG GEN #2'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	102.8575	0.25281	'GEN527163 1-MUSTANG GEN #3 22 KV'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	103.0834	0.25281	'GEN527164 1-MUSTANG GEN #4 22 KV'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	103.0879	0.25281	'GEN527165 1-Mustang Gen #5'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	101.8921	0.25281	'GEN527882 1-CUNNINGHAM GEN #2 20 KV'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	103.0292	0.25281	'GEN527901 1-HOBBS PLANT #1 (CT)'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	103.0292	0.25281	'GEN527902 1-HOBBS PLANT #2 (CT)'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	101.5665	0.25281	'GEN527903 1-HOBBS PLANT #3 (ST)'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	102.6421	0.25281	'GEN531447 1-HOLCOMB GENERATOR'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	113.0696	0.25281	'GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	109.9077	0.25281	'GEN542955 1-LACYGNE UNIT #1'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	109.6533	0.25281	'GEN542956 2-LACYGNE UNIT #2'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	101.2457	0.25281	'GEN560017 1-G04-03 0.6000'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	100.5547	0.25281	'GEN560020 1-G06-35 0.5750'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	102.4764	0.25281	'GEN560039 1-G05-21 0.6000'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	102.5828	0.25281	'GEN560042 1-G06-02 0.6900'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	100.3792	0.25281	'GEN560114 1-G06-45 0.6000'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	100.4121	0.25281	'GEN560162 1-G06-47 0.6000'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	102.9251	0.25281	'GEN560193 1-G09-16 0.6900'	
G09_016		5 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	103.9491	0.25281	'GEN560302 1-G06-43 0.6000'	
G09_016		6 10G	'CLINTON JUNCTION - ELK CITY 138KV CKT 1'	'TO->FROM'	143	143	109.3288	0.25331	'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'	
G09_016		2 10G	'GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1'	'FROM->TO'	319	351	100.9	0.21225	'BECKHAM CO 230.00 - BECKHAM EHV 230.00 230KV CKT 1'	
G09_017		2 10G	BLOWN UP	'TO->FROM'	956	1052	91.54452	0.22665	'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'	
G09_017		5 10G	BLOWN UP	'TO->FROM'	1187	1195	59.06627	0.28378	'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'	
G09_017		5 10G	BLOWN UP	'TO->FROM'	956	1052	49.29767	0.22963	'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'	
G09_017		5 10G	BLOWN UP	'TO->FROM'	956	1052	61.69436	0.22963	'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'	
G09_017		2 10G	'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'	'TO->FROM'	956	1052	109.7664	0.30688	'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'	
G09_017		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	125.8197	0.26876	'LAWTON EASTSIDE - OKLAUNION 345KV CKT 1'	
G09_017		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	116.5733	0.26876	'G05-15T 345.00 - OKLAUNION 345KV CKT 1'	
G09_017		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	109.6181	0.22129	'Hitchland Interchange - STEVENS CO 345.00 345KV CKT 1'	
G09_017		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	112.8935	0.22129	'FINNEY SWITCHING STATION - STEVENS CO 345.00 345KV CKT 1'	
G09_017		1 10G	'NORTHWEST - TATONGA EHV 345.00 345KV CKT 1'	'TO->FROM'	1195	1195	114.1798	0.26876	'G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1'	
G09_017		2 10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	'FROM->TO'	515	560	113.5629	0.48866	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'	
G09_017		2 10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	'FROM->TO'	515	560	113.8977	0.48866	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'	
G09_017		5 10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	'FROM->TO'	515	560	125.7502	0.49084	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'	
G09_017		5 10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	'FROM->TO'	515	560	125.8037	0.49084	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'	
G09_017		2 10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'	'FROM->TO'	515	560	113.5629	0.48866	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	
G09_017		2 10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'	'FROM->TO'	515	560	113.8977	0.48866	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	
G09_017		5 10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'	'FROM->TO'	515	560	125.7502	0.49084	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	
G09_017		5 10G	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 2'	'FROM->TO'	515	560	125.8037	0.49084	'TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1'	