



Definitive Interconnection System Impact Re-Study for Generation Interconnection Requests

Southwest Power Pool
Engineering Department
Generation Interconnection

(DISIS-2009-001-2 Study)
January 2011



SPP RESTRICTED

Definitive Interconnection System Impact Study for Generation Interconnection Requests

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Engineering Department
Tariff Studies – Generation Interconnection

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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 the withdrawal of higher queued projects and the inclusion of priority projects by the SPP Board of Directors. 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. Previously performed dynamic stability analysis and additional powerflow analysis for power factor requirements has determined the need for reactive. Previously performed dynamic stability analysis has determined that the transmission system will remain stable with the assigned Network Upgrades and Interconnection Facilities to the DISIS.

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.

The total estimated minimum cost for interconnecting the DISIS-2009-001 interconnection customers is \$146,000,000. 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

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.

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.

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Introduction

Pursuant to the Southwest Power Pool (SPP) Open Access Transmission Tariff (OATT), SPP has conducted this Definitive Interconnection System Impact Study (DISIS) for certain generation interconnection requests in the SPP Generation Interconnection Queue. These interconnection requests have been clustered together for the following 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-2009-001-2 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 2010 series Transmission Service Request (TSR) Models 2011 spring and 2011 and 2016 summer and winter peak scenario 0 peak cases were used for this study. Each of the control areas' resources were then re-dispatched using current dispatch orders.

Stability – The stability analysis was not performed 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 – Moore County 230kV line
- Hitchland – Ochiltree 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 – Post Rock - 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.
- Central Plains – Setab 115kV transmission line assigned to GEN-2007-013 interconnection customer.
- Grassland 230/115kV autotransformer #2 assigned to GEN-2008-016
- Spearville 345/230kV autotransformer #2 assigned to GEN-2006-006.
- Priority Projects⁶
 - Hitchland-Woodward double circuit 345kV transmission line
 - Comanche-Woodward double circuit 345kV transmission line
 - Comanche-Medicine Lodge double circuit 345kV transmission line
 - Medicine Lodge – Wichita double circuit 345kV transmission line
 - Medicine Lodge 345/138kV autotransformer

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.

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.

⁵ Based on Facility Study Posting November 2008

⁶ Notice to Construct issued June, 2010

Peaking units were not dispatched in the 2011 spring model. To study peaking units' impacts, the 2016 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 \$146,000,000. 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 G. 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 Judson Large – North Judson Large – Spearville was added. In addition, a Spearville 345/115kV autotransformer was added.

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 is 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. With the exception of GEN-2008-038, no constraints are found in the area. GEN-2008-038 has been studied separately due to relative isolation and its proximity to higher queued interconnection requests in the Associated Electric Cooperative Inc (AECI) interconnection queue.

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 – Belden as well as a 115kV line from Petersburg – Madison. Additionally, the Petersburg-Albion line will need to have line structures raised to accommodate a higher line rating. The Fort Randall – Kelley 230kV line was found to have a lower rating in the Facility Study of 192MVA. This requires the raising of structures to accommodate GEN-2008-086N2.

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

The stability analysis was not performed again for this study. The power factor analysis from the original impact study was not performed again.

Conclusion

The minimum cost of interconnecting all of the interconnection requests included in this Impact Cluster Study is estimated at \$146,000,000 for the Allocated Network Upgrades and Transmission Owner Interconnection Facilities are listed in Appendix E and F These costs do not include the cost of upgrades of other transmission facilities listed in Appendix 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-2005-012	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	101	AEPW	Grapevine - Elk City 230kV	On-Line
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 12/31/2011
GEN-2006-020N	42	NPPD	Bloomfield 115kV	1/1/2009
GEN-2006-021	101	WPEK	Flat Ridge Tap 138kV	On-Line
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
GEN-2006-032	200	MIDW	South Hays 230kV	On Suspension

Appendix B: Prior Queued Interconnection Requests



Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
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 2011
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	On schedule for 2014
GEN-2007-002	160	SPS	Grapevine 115kV	On Suspension
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	On Suspension
GEN-2007-015	135	WERE	Tap Humboldt – Kelly 161kV	On Suspension
GEN-2007-017	101	MIPU	Tap Maryville – Clarinda 161kV	On Suspension
GEN-2007-021	201	OKGE	*Tatonga 345kV	IA Pending
GEN-2007-025	300	WERE	Tap Woodring – Wichita 345kV	On Suspension
GEN-2007-032	150	WFEC	Tap Clinton Junction – Clinton 138kV	IA Pending
GEN-2007-038	200	SUNC	Spearville 345kV	IA Pending
GEN-2007-043	200	AEPW	Tap Lawton Eastside – Cimarron 345kV	IA Pending
GEN-2007-044	300	OKGE	*Tatonga 345kV	IA Pending
GEN-2007-046	200	SPS	*Hitchland 115kV	IA Pending
GEN-2007-048	400	SPS	Tap Amarillo South – Swisher 230kV	IA Pending
GEN-2007-050	170	OKGE	*Woodward 138kV	IA Pending
GEN-2007-051	200	WFEC	Mooreland 138kV	IA Pending
GEN-2007-052	150	WFEC	Anadarko 138kV	On Line
GEN-2007-053	110	MIPU	Tap Maryville – Clarinda 161kV	On Schedule for 2013
GEN-2007-057	35	SPS	Moore County East 115kV	IA Pending
GEN-2007-062**	765	OKGE	*Woodward 345kV	IA Pending
GEN-2008-003	101	OKGE	*Woodward EHV 138kV	IA Pending
GEN-2008-008	60	SPS	Graham 115kV	IA Pending
GEN-2008-009	60	SPS	San Juan Mesa Tap 230kV	IA Pending
GEN-2008-013	300	OKGE	Tap Woodring – Wichita 345kV	On Schedule for 2013
GEN-2008-014	150	SPS	Tap Tuco – Oklaunion 345kV	IA Pending
GEN-2008-016	248	SPS	Grassland 230kV	IA Pending
GEN-2008-017	300	SUNC	Setab 345kV	IA Pending
GEN-2008-018	405	SUNC	Finney 345kV	IA Pending
GEN-2008-019**	300	OKGE	*Tatonga 345kV	IA Pending
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

Appendix B: Prior Queued Interconnection Requests



Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
AECI-1	400	AECI	Tap Cooper – Airport 345kV	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
			Spearmen 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-2007-046	200	SPS	*Hitchland 115kV
	GEN-2007-057	35	SPS	Moore County East 115kV
	PRIOR QUEUED SUBTOTAL		2,481.9	
	AREA SUBTOTAL		2,481.9	

Appendix C: Study Groupings



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		

Appendix C: Study Groupings



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-2005-015	150	SPS	Tap TUO - Oklaunion 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	101	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	200	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		

Appendix C: Study Groupings



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-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
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Appendix C: Study Groupings



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

See Facility Studies posted for each individual request

E: Cost Allocation per Interconnection Request

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 E. - Cost Allocation Per Request

(Including Previously Allocated Network Upgrades*)

Interconnection Request	Upgrade Type	Allocated Costs	E + C Costs
GEN-2006-037N1			
GEN-2006-037N1 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$10,000,000.00	\$10,000,000.00
Current Study Total			\$10,000,000.00
GEN-2006-044N			
GEN-2006-044N Interconnection Costs See Oneline Diagram	Current Study Allocation	\$1,300,000.00	\$1,300,000.00
Neligh - Petersburg 115KV CKT 1 Per GEN-2006-044N Impact Restudy	Current Study Allocation	\$540,000.00	\$540,000.00
Albion - Petersburg 115KV CKT1 Line re-rating to 100°C	Current Study Allocation	\$112,109.85	\$360,000.00
Petersburg - Madison 115KV CKT 1 Construct approximately 35 miles of new 115kV	Current Study Allocation	\$7,341,838.67	\$22,400,000.00
Belden - Bloomfield 115KV CKT 1 Construct approximately 45 miles of new 115kV	Current Study Allocation	\$1,181,137.26	\$23,200,000.00
Current Study Total			\$10,475,085.78
GEN-2007-011N6			
GEN-2007-011N6 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$500,000.00	\$500,000.00
Albion - Petersburg 115KV CKT1 Line re-rating to 100°C	Current Study Allocation	\$205,079.00	\$360,000.00
Petersburg - Madison 115KV CKT 1 Construct approximately 35 miles of new 115kV	Current Study Allocation	\$13,430,192.68	\$22,400,000.00
Belden - Bloomfield 115KV CKT 1 Construct approximately 45 miles of new 115kV	Current Study Allocation	\$2,160,616.94	\$23,200,000.00
Current Study Total			\$16,295,888.62
GEN-2007-011N9			
GEN-2007-011N9 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$500,000.00	\$500,000.00
Belden - Bloomfield 115KV CKT 1 Construct approximately 45 miles of new 115kV	Current Study Allocation	\$19,858,245.81	\$23,200,000.00
Albion - Petersburg 115KV CKT1 Line re-rating to 100°C	Current Study Allocation	\$42,811.15	\$360,000.00
Petersburg - Madison 115KV CKT 1 Construct approximately 35 miles of new 115kV	Current Study Allocation	\$1,627,968.65	\$22,400,000.00
Current Study Total			\$22,029,025.61
GEN-2007-040			
GEN-2007-040 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$10,404,019.00	\$10,404,019.00

* 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
Comanche - Medicine Lodge 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Spearville - Comanche 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
PostRock - Spearville 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Medicine Lodge - Woodward 345KV CKT 1 Priority Project: Med Lodge-Woodward 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Hitchland - Woodward 345kV CKT 1 Priority Project: Hitchland-Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
Current Study Total		\$10,404,019.00	
GEN-2008-023			
GEN-2008-023 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$1,038,000.00	\$1,038,000.00
Gracemont Transformer 345/138/13.8KV CKT 1 Priority Project: Gracemont Transformer 345/138/13.8KV CKT 1	Previously Allocated		\$8,000,000.00
Clinton Junction - Elk City 138KV CKT 1 Replaced terminal equipment	Previously Allocated		\$0.00
Current Study Total		\$1,038,000.00	
GEN-2008-025			
GEN-2008-025 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$1,767,858.00	\$1,767,858.00
Spearville - Comanche 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Comanche - Medicine Lodge 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Central Plains - Setab 115KV CKT 1 Per GEN-2007-013 Facility Study	Previously Allocated		\$4,800,000.00
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Current Study Total		\$1,767,858.00	
GEN-2008-029			
GEN-2008-029 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$4,610,000.00	\$4,610,000.00

* 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
Medicine Lodge - Woodward 345KV CKT 1 Priority Project: Med Lodge-Woodward 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: TUCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: TUCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
PostRock - Spearville 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Current Study Total		\$4,610,000.00	
GEN-2008-038			
GEN-2008-038 Interconnection Costs See separately posted impact study for all costs	Current Study Allocation	\$6,843,000.00	\$6,843,000.00
Current Study Total		\$6,843,000.00	
GEN-2008-051			
GEN-2008-051 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$2,346,379.00	\$2,346,379.00
Hitchland - Woodward 345kV CKT 1 Priority Project: Hitchland-Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated	\$247,005,793.00	
Medicine Lodge - Woodward 345KV CKT 1 Priority Project: Med Lodge-Woodward 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated	\$194,972,759.00	
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated	\$356,300,000.00	
Border - Woodward 345KV CKT 1 Balanced Portfolio: TUCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated	\$148,727,500.00	
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: TUCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated	\$148,727,500.00	
Current Study Total		\$2,346,379.00	
GEN-2008-079			
GEN-2008-079 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$4,484,903.00	\$4,484,903.00
Spearville (SPEARVL2) 345/230/13.8KV Transformer CKT 1 Install 345/230/13.8kV Transformer CKT 1	Current Study Allocation	\$6,700,000.00	\$6,700,000.00
Judson Large - North Judson Large 115KV CKT 2 Construct approximately 1 mile of new 115kV for 2nd circuit	Current Study Allocation	\$1,500,000.00	\$1,500,000.00
North Judson Large - Spearville 115KV CKT 2 Construct approximately 15 miles of new 115kV for 2nd circuit	Current Study Allocation	\$8,000,000.00	\$8,000,000.00

* 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
Spearville - Comanche 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Comanche - Medicine Lodge 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
PostRock - Spearville 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Medicine Lodge - Woodward 345KV CKT 1 Priority Project: Med Lodge-Woodward 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Current Study Total		\$20,684,903.00	
GEN-2008-086N2			
GEN-2008-086N2 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$6,400,000.00	\$6,400,000.00
Fort Randall- Kelley 230KV CKT 1 Total E & C Cost for Fort Randall-Madison-Kelly Project	Current Study Allocation	\$2,900,000.00	\$2,900,000.00
Current Study Total		\$9,300,000.00	
GEN-2008-092			
GEN-2008-092 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$1,140,505.00	\$1,140,505.00
PostRock - Spearville 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Spearville - Comanche 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Comanche - Medicine Lodge 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Current Study Total		\$1,140,505.00	
GEN-2008-124			
GEN-2008-124 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$7,353,935.00	\$7,353,935.00
Comanche - Medicine Lodge 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00

* 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
Spearville - Comanche 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
PostRock - Spearville 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Medicine Lodge - Woodward 345KV CKT 1 Priority Project: Med Lodge-Woodward 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: TUCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: TUCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Current Study Total		\$7,353,935.00	
GEN-2008-127			
GEN-2008-127 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$9,160,000.00	\$9,160,000.00
Current Study Total		\$9,160,000.00	
GEN-2008-129			
GEN-2008-129 Interconnection Costs See Oneline 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 Oneline Diagram	Current Study Allocation	\$3,267,727.00	\$3,267,727.00
PostRock - Spearville 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Axtell - PostRock 345KV CKT 1 Balanced Portfolio: Spearville-PostRock-Axtell 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$112,700,000.00
Spearville - Comanche 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Comanche - Medicine Lodge 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Current Study Total		\$3,267,727.00	
GEN-2009-016			

* 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-2009-016 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$4,543,000.00	\$4,543,000.00
Clinton Junction - Elk City 138KV CKT 1 Replaced terminal equipment	Previously Allocated		\$0.00
Gracemont Transformer 345/138/13.8KV CKT 1 Priority Project: Gracemont Transformer 345/138/13.8KV CKT 1	Previously Allocated		\$8,000,000.00
Medicine Lodge - Woodward 345KV CKT 1 Priority Project: Med Lodge-Woodward 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
	Current Study Total	\$4,543,000.00	
GEN-2009-017			
GEN-2009-017 Interconnection Costs** See separately posted study	Current Study Allocation	\$2,000,000.00	\$2,000,000.00
Border - Tuco Interchange 345KV CKT 1 Balanced Portfolio: TUOCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Border - Woodward 345KV CKT 1 Balanced Portfolio: TUOCO-Woodward 345kV (Total Project E&C Cost Shown)	Previously Allocated		\$148,727,500.00
Medicine Lodge - Woodward 345KV CKT 1 Priority Project: Med Lodge-Woodward 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$194,972,759.00
Medicine Lodge - Wichita 345KV CKT 1 Priority Project: Spearville-Comanche-Med Lodge-Wichita Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$356,300,000.00
Hitchland - Woodward 345kV CKT 1 Priority Project: Hitchland-Woodward Dbl 345kV CKT (Total Project E&C Cost Shown)	Previously Allocated		\$247,005,793.00
	Current Study Total	\$2,000,000.00	
GEN-2009-025			
GEN-2009-025 Interconnection Costs See Oneline Diagram	Current Study Allocation	\$2,889,212.00	\$2,889,212.00
	Current Study Total	\$2,889,212.00	

* 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

Appendix F. - Cost Allocation Per Upgrade Facility

Upgrade Facility	Allocated Costs	E + C Costs
Albion - Petersburg 115KV CKT1		\$360,000.00
Line re-rating to 100°C		
GEN-2006-044N	\$112,109.85	
GEN-2007-011N6	\$205,079.00	
GEN-2007-011N9	\$42,811.15	
Total	\$360,000.00	
Belden - Bloomfield 115KV CKT 1		\$23,200,000.01
Construct approximately 45 miles of new 115kV		
GEN-2006-044N	\$1,181,137.26	
GEN-2007-011N6	\$2,160,616.94	
GEN-2007-011N9	\$19,858,245.81	
Total	\$23,200,000.01	
Fort Randall- Kelley 230KV CKT 1		\$2,900,000.00
Total E & C Cost for Fort Randall-Madison-Kelly Project		
GEN-2008-086N2	\$2,900,000.00	
Total	\$2,900,000.00	
GEN-2006-037N1 Interconnection Costs		\$10,000,000.00
See Oneline Diagram		
GEN-2006-037N1	\$10,000,000.00	
Total	\$10,000,000.00	
GEN-2006-044N Interconnection Costs		\$1,300,000.00
See Oneline Diagram		
GEN-2006-044N	\$1,300,000.00	
Total	\$1,300,000.00	
GEN-2007-011N6 Interconnection Costs		\$500,000.00
See Oneline Diagram		
GEN-2007-011N6	\$500,000.00	
Total	\$500,000.00	
GEN-2007-011N9 Interconnection Costs		\$500,000.00
See Oneline Diagram		
GEN-2007-011N9	\$500,000.00	
Total	\$500,000.00	
GEN-2007-040 Interconnection Costs		\$10,404,019.00
See Oneline Diagram		
GEN-2007-040	\$10,404,019.00	
Total	\$10,404,019.00	

Upgrade Facility	Allocated Costs	E + C Costs
GEN-2008-023 Interconnection Costs		\$1,038,000.00
See Oneline Diagram		
GEN-2008-023	\$1,038,000.00	
	Total	\$1,038,000.00
GEN-2008-025 Interconnection Costs		\$1,767,858.00
See Oneline Diagram		
GEN-2008-025	\$1,767,858.00	
	Total	\$1,767,858.00
GEN-2008-029 Interconnection Costs		\$4,610,000.00
See Oneline Diagram		
GEN-2008-029	\$4,610,000.00	
	Total	\$4,610,000.00
GEN-2008-038 Interconnection Costs		\$6,843,000.00
See separately posted impact study for all costs		
GEN-2008-038	\$6,843,000.00	
	Total	\$6,843,000.00
GEN-2008-051 Interconnection Costs		\$2,346,379.00
See Oneline Diagram		
GEN-2008-051	\$2,346,379.00	
	Total	\$2,346,379.00
GEN-2008-079 Interconnection Costs		\$4,484,903.00
See Oneline Diagram		
GEN-2008-079	\$4,484,903.00	
	Total	\$4,484,903.00
GEN-2008-086N2 Interconnection Costs		\$6,400,000.00
See Oneline Diagram		
GEN-2008-086N2	\$6,400,000.00	
	Total	\$6,400,000.00
GEN-2008-092 Interconnection Costs		\$1,140,505.00
See Oneline Diagram		
GEN-2008-092	\$1,140,505.00	
	Total	\$1,140,505.00
GEN-2008-124 Interconnection Costs		\$7,353,935.00
See Oneline Diagram		
GEN-2008-124	\$7,353,935.00	
	Total	\$7,353,935.00
GEN-2008-127 Interconnection Costs		\$9,160,000.00
See Oneline Diagram		

Upgrade Facility	Allocated Costs	E + C Costs
GEN-2008-127	\$9,160,000.00	
Total	\$9,160,000.00	
GEN-2008-129 Interconnection Costs See Oneline Diagram GEN-2008-129		\$1.00
Total	\$1.00	
GEN-2009-011 Interconnection Costs See Oneline Diagram GEN-2009-011	\$3,267,727.00	
Total	\$3,267,727.00	
GEN-2009-016 Interconnection Costs See Oneline Diagram GEN-2009-016	\$4,543,000.00	
Total	\$4,543,000.00	
GEN-2009-017 Interconnection Costs** See separately posted study GEN-2009-017	\$2,000,000.00	
Total	\$2,000,000.00	
GEN-2009-025 Interconnection Costs See Oneline Diagram GEN-2009-025	\$2,889,212.00	
Total	\$2,889,212.00	
Judson Large - North Judson Large 115KV CKT 2 Construct approximately 1 mile of new 115kV for 2nd circuit GEN-2008-079	\$1,500,000.00	
Total	\$1,500,000.00	
KC South - Longview 161KV CKT 1 Replace terminal equipment to increase limit to conductor rating GEN-2008-129	\$150,000.00	
Total	\$150,000.00	
Neligh - Petersburg 115KV CKT 1 Per GEN-2006-044N Impact Restudy GEN-2006-044N	\$540,000.00	
Total	\$540,000.00	
North Judson Large - Spearville 115KV CKT 2 Construct approximately 15 miles of new 115kV for 2nd circuit GEN-2008-079	\$8,000,000.00	
Total	\$8,000,000.00	

Upgrade Facility	Allocated Costs	E + C Costs
Petersburg - Madison 115KV CKT 1		\$22,400,000.00
Construct approximately 35 miles of new 115kV		
GEN-2006-044N	\$7,341,838.67	
GEN-2007-011N6	\$13,430,192.68	
GEN-2007-011N9	\$1,627,968.65	
Total	\$22,400,000.00	
Spearville (SPEARVL2) 345/230/13.8KV Transformer CKT 1		\$6,700,000.00
Install 345/230/13.8kV Transformer CKT 1		
GEN-2008-079	\$6,700,000.00	
Total	\$6,700,000.00	
Current Study Upgrades Total		\$146,298,539.01

G: ACCC Analysis (No Upgrades)

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TCLOADING	CONTINGENCY NAME
09G06_044N	11G	G06_044N	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.9928	166.6058	ALBION - PETERSBURG 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.99489	166.5373	NELIGH - PETERSBURG 115KV CKT 1
00G06_044N	11WP	G06_044N	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.99301	166.413	ALBION - PETERSBURG 115KV CKT 1
09G06_044N	11G	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.9928	166.3472	NELIGH - PETERSBURG 115KV CKT 1
00G06_044N	11WP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.99301	165.862	NELIGH - PETERSBURG 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.99489	165.5498	ALBION - PETERSBURG 115KV CKT 1
00G06_044N	16WP	G06_044N	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.99363	156.1205	ALBION - PETERSBURG 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.99528	155.4223	NELIGH - PETERSBURG 115KV CKT 1
00G06_044N	16WP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.99363	155.1776	NELIGH - PETERSBURG 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.99528	155.0683	ALBION - PETERSBURG 115KV CKT 1
9	11G	G06_044N	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.99423	134.3441	ALBION - PETERSBURG 115KV CKT 1
9	11G	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.99423	134.111	NELIGH - PETERSBURG 115KV CKT 1
09G06_044N	11G	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.51383	118.7151	BLOOMFIELD - GAVINS POINT 115KV CKT 1
09G06_044N	11G	G06_044N	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.25335	117.8514	ALBION - PETERSBURG 115KV CKT 1
00G06_044N	11WP	G06_044N	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.72309	116.4344	ALBION - GENOA 115KV CKT 1
09G06_044N	11G	G06_044N	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21288	115.7916	COUNTY LINE - NELIGH 115KV CKT 1
09G06_044N	11G	G06_044N	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21288	115.7468	LN-1163
09G06_044N	11G	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57366	115.6647	LN-1163
09G06_044N	11G	G06_044N	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21288	115.648	BATTLE CREEK - COUNTY LINE 115KV CKT 1
09G06_044N	11G	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57366	115.6035	COUNTY LINE - NELIGH 115KV CKT 1
09G06_044N	11G	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57366	115.4257	BATTLE CREEK - COUNTY LINE 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57576	115.2468	LN-1163
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57576	115.0131	COUNTY LINE - NELIGH 115KV CKT 1
09G06_044N	11G	G06_044N	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21288	114.1732	BATTLE CREEK - NORTH NORFOLK 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57576	113.8673	BATTLE CREEK - COUNTY LINE 115KV CKT 1
09G06_044N	11G	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57366	113.5994	BATTLE CREEK - NORTH NORFOLK 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.40411	110.8512	LOUP CITY - NORTH LOUP 115KV CKT 1
9	11G	G06_044N	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.25372	109.8134	ALBION - PETERSBURG 115KV CKT 1
09G06_044N	11G	G06_044N	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.72341	109.474	ALBION - GENOA 115KV CKT 1
9	11G	G06_044N	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21319	109.0832	COUNTY LINE - NELIGH 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	109.0677	CREIGHTON 115/69KV TRANSFORMER CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.46089	109.0418	GRAND ISLAND - ST LIBORY 115KV CKT 1
9	11G	G06_044N	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21319	109.0362	LN-1163
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.40359	108.9595	LOUP CITY - NORTH LOUP 115KV CKT 1
9	11G	G06_044N	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21319	108.9378	BATTLE CREEK - COUNTY LINE 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47836	108.3819	FT THOMPSON - GRAND ISLAND 345KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	108.2063	NELIGH 115/69KV TRANSFORMER CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47506	108.094	CALLAWAY - MAXWELL 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47764	107.9362	KELLY - MADISONCO 230.00 230KV CKT 1
00G06_044N	11WP	G06_044N	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.72309	107.9279	COLUMBUS - GENOA 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	107.7058	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
9	11G	G06_044N	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21319	107.4585	BATTLE CREEK - NORTH NORFOLK 115KV CKT 1
00G06_044N	16WP	G06_044N	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.71894	107.3804	ALBION - GENOA 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	107.3066	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47875	107.2679	NEB02WAPAB2
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.4636	107.2368	BROKEN BOW - LOUP CITY 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47767	107.0405	FT RANDAL - MADISONCO 230.00 230KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	106.7898	NELIGH 115/34.5KV TRANSFORMER CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.46089	106.7445	LOUP CITY - ST LIBORY 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	106.6696	BATTLE CREEK 115/69KV TRANSFORMER CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.46089	106.6668	LN-1169
09G06_044N	11G	G06_044N	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.72341	106.4764	COLUMBUS - GENOA 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.48516	106.4511	GAVINS POINT - YANKON JCT 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57629	106.2237	LN-1163
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57629	106.0428	COUNTY LINE - NELIGH 115KV CKT 1

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TCLOADING	CONTINGENCY NAME
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.27507	105.2898	COLUMBUS - GENOA 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57629	104.871	BATTLE CREEK - COUNTY LINE 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	103.8577	BASE CASE
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	103.7803	CREIGHTON 115/69KV TRANSFORMER CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47952	103.1458	FT THOMPSON - GRAND ISLAND 345KV CKT 1
09G06_044N	11G	G06_044N	TO->FROM	COUNTY LINE - NELIGH 115KV CKT 1	120	0.31075	103.1428	BLOOMFIELD - GAVINS POINT 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	102.74	ERICSON7 115.00 - PETERSBURG 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	102.6398	NELIGH 115/69KV TRANSFORMER CKT 1
00G06_044N	11WP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57443	102.5957	LN-1163
09G06_044N	11G	G06_044N	TO->FROM	BATTLE CREEK - COUNTY LINE 115KV CKT 1	120	0.31075	102.5579	BLOOMFIELD - GAVINS POINT 115KV CKT 1
00G06_044N	11WP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57443	102.5372	COUNTY LINE - NELIGH 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	102.3709	ERICSON7 115.00 115/6.9KV TRANSFORMER CKT 1
00G06_044N	11WP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57443	102.3218	BATTLE CREEK - COUNTY LINE 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47877	102.2162	KELLY - MADISONCO 230.00 230KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	102.1655	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.4604	102.0886	LOUP CITY - ST LIBORY 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.4604	101.9828	LN-1169
00G06_044N	11WP	G06_044N	FROM->TO	ALBION - GENOA 115KV CKT 1	113	0.67066	101.9657	NELIGH - PETERSBURG 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47656	101.9315	CALLAWAY - MAXWELL 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47991	101.5847	NEB02WAPAB2
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	101.4967	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
9 11G	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.51457	101.4562	BLOOMFIELD - GAVINS POINT 115KV CKT 1	
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.46694	101.4036	BROKEN BOW - LOUP CITY 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.4788	101.371	FT RANDAL - MADISONCO 230.00 230KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.48047	101.2857	LN-1090
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.48047	101.2672	CALAMUS - THEDFORD 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	101.2209	NELIGH 115/34.5KV TRANSFORMER CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	101.0425	BATTLE CREEK 115/69KV TRANSFORMER CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.48047	100.9411	MAXWELL - THEDFORD 115KV CKT 1
00G06_044N	16SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47991	100.623	GAVINS POINT - HARTINGTON 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	100.5679	SPALDING 115/34.5KV TRANSFORMER CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47803	100.3204	TRF-STEGALL
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47803	100.3202	NEB01WAPAB3
09G06_044N	11G	G06_044N	TO->FROM	COUNTY LINE - NELIGH 115KV CKT 1	120	0.48766	100.1901	ALBION - PETERSBURG 115KV CKT 1
00G06_044N	11SP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.48305	100	TRF-HOSKINS
00G06_044N	11WP	G06_044N	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57443	100	BATTLE CREEK - NORTH NORFOLK 115KV CKT 1
09G06_044N	11G	G07_011N6	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.9928	166.6058	ALBION - PETERSBURG 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.99489	166.5373	NELIGH - PETERSBURG 115KV CKT 1
00G06_044N	11WP	G07_011N6	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.99301	166.413	ALBION - PETERSBURG 115KV CKT 1
09G06_044N	11G	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.9928	166.3472	NELIGH - PETERSBURG 115KV CKT 1
00G06_044N	11WP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.99301	165.862	NELIGH - PETERSBURG 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.99489	165.5498	ALBION - PETERSBURG 115KV CKT 1
00G06_044N	16WP	G07_011N6	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.99363	156.1205	ALBION - PETERSBURG 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.99528	155.4223	NELIGH - PETERSBURG 115KV CKT 1
00G06_044N	16WP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.99363	155.1776	NELIGH - PETERSBURG 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.99528	155.0683	ALBION - PETERSBURG 115KV CKT 1
9 11G	G07_011N6	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.99423	134.3441	ALBION - PETERSBURG 115KV CKT 1	
9 11G	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.99423	134.111	NELIGH - PETERSBURG 115KV CKT 1	
09G06_044N	11G	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.51383	118.7151	BLOOMFIELD - GAVINS POINT 115KV CKT 1
09G06_044N	11G	G07_011N6	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.25335	117.8514	ALBION - PETERSBURG 115KV CKT 1
00G06_044N	11WP	G07_011N6	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.72309	116.4344	ALBION - GENOA 115KV CKT 1
09G06_044N	11G	G07_011N6	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21288	115.7916	COUNTY LINE - NELIGH 115KV CKT 1
09G06_044N	11G	G07_011N6	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21288	115.7468	LN-1163
09G06_044N	11G	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57366	115.6647	LN-1163
09G06_044N	11G	G07_011N6	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21288	115.648	BATTLE CREEK - COUNTY LINE 115KV CKT 1

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	PDF	TCLOADING	CONTINGENCY NAME
09G06_044N	11G	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57366	115.6035	COUNTY LINE - NELIGH 115KV CKT 1
09G06_044N	11G	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57366	115.4257	BATTLE CREEK - COUNTY LINE 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57576	115.2468	LN-1163
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57576	115.0131	COUNTY LINE - NELIGH 115KV CKT 1
09G06_044N	11G	G07_011N6	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21288	114.1732	BATTLE CREEK - NORTH NORFOLK 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57576	113.8673	BATTLE CREEK - COUNTY LINE 115KV CKT 1
09G06_044N	11G	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57366	113.5994	BATTLE CREEK - NORTH NORFOLK 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.40411	110.8512	LOUP CITY - NORTH LOUP 115KV CKT 1
9 11G	G07_011N6	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.25372	109.8134	ALBION - PETERSBURG 115KV CKT 1	
09G06_044N	11G	G07_011N6	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.72341	109.474	ALBION - GENOA 115KV CKT 1
9 11G	G07_011N6	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21319	109.0832	COUNTY LINE - NELIGH 115KV CKT 1	
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	109.0677	CREIGHTON 115/69KV TRANSFORMER CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.46089	109.0418	GRAND ISLAND - ST LIBORY 115KV CKT 1
9 11G	G07_011N6	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21319	109.0362	LN-1163	
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.40359	108.9595	LOUP CITY - NORTH LOUP 115KV CKT 1
9 11G	G07_011N6	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21319	108.9378	BATTLE CREEK - COUNTY LINE 115KV CKT 1	
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47836	108.3819	FT THOMPSON - GRAND ISLAND 345KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	108.2063	NELIGH 115/69KV TRANSFORMER CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47506	108.094	CALLAWAY - MAXWELL 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47764	107.9362	KELLY - MADISONCO 230.00 230KV CKT 1
00G06_044N	11WP	G07_011N6	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.72309	107.9279	COLUMBUS - GENOA 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	107.7058	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
9 11G	G07_011N6	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.21319	107.4585	BATTLE CREEK - NORTH NORFOLK 115KV CKT 1	
00G06_044N	16WP	G07_011N6	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.71894	107.3804	ALBION - GENOA 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	107.3066	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47875	107.2679	NEB02WAPAB2
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.4636	107.2368	BROKEN BOW - LOUP CITY 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47767	107.0405	FT RANDAL - MADISONCO 230.00 230KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	106.7898	NELIGH 115/34.5KV TRANSFORMER CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.46089	106.7445	LOUP CITY - ST LIBORY 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	106.6696	BATTLE CREEK 115/69KV TRANSFORMER CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.46089	106.6668	LN-1169
09G06_044N	11G	G07_011N6	TO->FROM	NELIGH - PETERSBURG 115KV CKT 1	113	0.72341	106.4764	COLUMBUS - GENOA 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.48516	106.4511	GAVINS POINT - YANKON JCT 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57629	106.2237	LN-1163
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57629	106.0428	COUNTY LINE - NELIGH 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.27507	105.2898	COLUMBUS - GENOA 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57629	104.871	BATTLE CREEK - COUNTY LINE 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	103.8577	BASE CASE
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	103.7803	CREIGHTON 115/69KV TRANSFORMER CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47952	103.1458	FT THOMPSON - GRAND ISLAND 345KV CKT 1
09G06_044N	11G	G07_011N6	TO->FROM	COUNTY LINE - NELIGH 115KV CKT 1	120	0.31075	103.1428	BLOOMFIELD - GAVINS POINT 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	102.74	ERICSON7 115.00 - PETERSBURG 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	102.6398	NELIGH 115/69KV TRANSFORMER CKT 1
00G06_044N	11WP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57443	102.5957	LN-1163
09G06_044N	11G	G07_011N6	TO->FROM	BATTLE CREEK - COUNTY LINE 115KV CKT 1	120	0.31075	102.5579	BLOOMFIELD - GAVINS POINT 115KV CKT 1
00G06_044N	11WP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57443	102.5372	COUNTY LINE - NELIGH 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	102.3709	ERICSON7 115.00 115/6.9KV TRANSFORMER CKT 1
00G06_044N	11WP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57443	102.3218	BATTLE CREEK - COUNTY LINE 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47877	102.2162	KELLY - MADISONCO 230.00 230KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	102.1655	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.4604	102.0886	LOUP CITY - ST LIBORY 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.4604	101.9828	LN-1169
00G06_044N	11WP	G07_011N6	FROM->TO	ALBION - GENOA 115KV CKT 1	113	0.67066	101.9657	NELIGH - PETERSBURG 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47656	101.9315	CALLAWAY - MAXWELL 115KV CKT 1

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TCLOADING	CONTINGENCY NAME
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47991	101.5847	NEB02WAPAB2
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	101.4967	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
9 11G		G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.51457	101.4562	BLOOMFIELD - GAVINS POINT 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.46694	101.4036	BROKEN BOW - LOUP CITY 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47888	101.371	FT RANDAL - MADISONCO 230.00 230KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.48047	101.2857	LN-1090
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.48047	101.2672	CALAMUS - THEDFORD 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	101.2209	NELIGH 115/34.5KV TRANSFORMER CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47889	101.0425	BATTLE CREEK 115/69KV TRANSFORMER CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.48047	100.9411	MAXWELL - THEDFORD 115KV CKT 1
00G06_044N	16SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47991	100.623	GAVINS POINT - HARTINGTON 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47769	100.5679	SPALDING 115/34.5KV TRANSFORMER CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47803	100.3204	TRF-STEGALL
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.47803	100.3202	NEB01WAPAB3
09G06_044N	11G	G07_011N6	TO->FROM	COUNTY LINE - NELIGH 115KV CKT 1	120	0.48766	100.1901	ALBION - PETERSBURG 115KV CKT 1
00G06_044N	11SP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.48305	100	TRF-HOSKINS
00G06_044N	11WP	G07_011N6	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.57443	100	BATTLE CREEK - NORTH NORFOLK 115KV CKT 1
00G07_011N9	11WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43551	148.0526	NEB02WAPAB2
00G07_011N9	11WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43551	147.6557	GAVINS POINT - HARTINGTON 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43425	143.0508	NEB02WAPAB2
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43425	142.8054	GAVINS POINT - HARTINGTON 115KV CKT 1
00G07_011N9	11WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38854	139.2606	MANNING - SPIRIT MOUND 115KV CKT 1
00G07_011N9	16WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43528	138.4793	NEB02WAPAB2
00G07_011N9	16WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43528	138.0339	GAVINS POINT - HARTINGTON 115KV CKT 1
00G07_011N9	11WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.32253	135.5899	FT RANDAL - UTICA JCT 230KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.99361	134.0497	BLOOMFIELD - CREIGHTON 115KV CKT 1
9 11G		G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43449	133.9638	NEB02WAPAB2
9 11G		G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43449	133.7081	GAVINS POINT - HARTINGTON 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38735	132.9614	GAVINS POINT - YANKTON 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38735	132.9572	SPIRIT MOUND - YANKTON 115KV CKT 1
00G07_011N9	11WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38854	131.6062	BERSFORD - MANNING 115KV CKT 1
00G07_011N9	11WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.48884	126.4514	BLOOMFIELD - CREIGHTON 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.32148	125.3805	FT RANDAL - UTICA JCT 230KV CKT 1
9 11G		G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38757	124.9323	GAVINS POINT - YANKTON 115KV CKT 1
9 11G		G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38757	124.9279	SPIRIT MOUND - YANKTON 115KV CKT 1
00G07_011N9	16WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.32279	123.496	FT RANDAL - UTICA JCT 230KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.99361	123.0873	CREIGHTON - NELIGH 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38735	123.0308	MANNING - SPIRIT MOUND 115KV CKT 1
00G07_011N9	16WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38891	122.2695	MANNING - SPIRIT MOUND 115KV CKT 1
9 11G		G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.99416	122.2315	BLOOMFIELD - CREIGHTON 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43425	121.8465	BELDEN - HARTINGTON 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.48785	118.9203	BLOOMFIELD - CREIGHTON 115KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.70779	118.6675	ALBION - PETERSBURG 115KV CKT 1
9 11G		G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.32166	118.6301	FT RANDAL - UTICA JCT 230KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.7259	117.8618	COUNTY LINE - NELIGH 115KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.7259	117.8152	LN-1163
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.7259	117.7155	BATTLE CREEK - COUNTY LINE 115KV CKT 1
00G07_011N9	11WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43551	117.5836	BELDEN - HARTINGTON 115KV CKT 1
00G07_011N9	16WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.48931	117.3481	BLOOMFIELD - CREIGHTON 115KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.7259	116.2388	BATTLE CREEK - NORTH NORFOLK 115KV CKT 1
9 11G		G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38757	115.0068	MANNING - SPIRIT MOUND 115KV CKT 1
00G07_011N9	16WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38891	114.4416	BERSFORD - MANNING 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38735	113.2613	BERSFORD - MANNING 115KV CKT 1
00G07_011N9	11WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.48884	113.016	CREIGHTON - NELIGH 115KV CKT 1
9 11G		G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43449	112.767	BELDEN - HARTINGTON 115KV CKT 1

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	PDF	TCLOADING	CONTINGENCY NAME
	9 11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.99416	111.2448	CREIGHTON - NELIGH 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.48785	110.1806	CREIGHTON - NELIGH 115KV CKT 1
	9 11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.70818	109.8134	ALBION - PETERSBURG 115KV CKT 1
	9 11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.7263	109.0832	COUNTY LINE - NELIGH 115KV CKT 1
	9 11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.48812	109.0595	BLOOMFIELD - CREIGHTON 115KV CKT 1
	9 11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.7263	109.0362	LN-1163
	9 11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.7263	108.9378	BATTLE CREEK - COUNTY LINE 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.35613	108.2434	ALBION - PETERSBURG 115KV CKT 1
	9 11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.7263	107.4585	BATTLE CREEK - NORTH NORFOLK 115KV CKT 1
00G07_011N9	11WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38854	106.9227	BERSFORD - SIOUX FALLS 115KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	CREIGHTON - NELIGH 115KV CKT 1	143	0.99361	106.7539	BLOOMFIELD - GAVINS POINT 115KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.69171	106.5351	ALBION - GENOA 115KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.69171	105.8154	COLUMBUS - GENOA 115KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.68108	105.6449	CREIGHTON 115/69KV TRANSFORMER CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.29922	105.393	BLOOMFIELD - GAVINS POINT 115KV CKT 1
	9 11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38757	105.2453	BERSFORD - MANNING 115KV CKT 1
00G07_011N9	16WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43528	105.1002	BELDEN - HARTINGTON 115KV CKT 1
	0 11WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43655	105.0267	NEB02WAPAB2
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.69795	104.8855	CLEARWATER - NELIGH 115KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.69795	104.8598	LN-1164
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.6771	104.6839	FT RANDAL - UTICA JCT 230KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.35983	104.6424	LN-1163
	0 11WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.43655	104.5888	GAVINS POINT - HARTINGTON 115KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.69795	104.5562	CLEARWATER - ONEILL 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.35983	104.4354	COUNTY LINE - NELIGH 115KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.68108	104.3975	BLOOMFIELD 115/69KV TRANSFORMER CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - CREIGHTON 115KV CKT 1	159	0.99361	104.3567	BLOOMFIELD - GAVINS POINT 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.35983	104.3276	BATTLE CREEK - COUNTY LINE 115KV CKT 1
	0 11WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.3233	103.6971	FT RANDAL - UTICA JCT 230KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.35983	103.3269	BATTLE CREEK - NORTH NORFOLK 115KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.6794	103.1796	RAUN - SIOUX CITY 345KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.68108	103.0408	GAVINS POINT 115/13.8KV TRANSFORMER CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.68108	103.0408	GAVINS POINT 115/13.8KV TRANSFORMER CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.68108	102.9742	GAVINS POINT 115/13.8KV TRANSFORMER CKT 1
00G07_011N9	16WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.48931	102.1939	CREIGHTON - NELIGH 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.34135	102.0709	HARTINGTON 115/69KV TRANSFORMER CKT 1
	0 11WP	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.38947	101.5993	MANNING - SPIRIT MOUND 115KV CKT 1
	9 11G	G07_011N9	TO->FROM	ALBION - PETERSBURG 115KV CKT 1	113	0.29939	101.4562	BLOOMFIELD - GAVINS POINT 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.34135	101.1503	BASE CASE
	9 11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.35633	100.9012	ALBION - PETERSBURG 115KV CKT 1
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.35949	100.6362	BELDEN - TWIN CHURCH 115KV CKT 1
09G07_011N9	11G	G07_011N9	FROM->TO	BLOOMFIELD - GAVINS POINT 115KV CKT 1	120	0.68108	100.4838	BASE CASE
09G07_011N9	11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.34135	100.4286	TYNDALL 115/69KV TRANSFORMER CKT 1
	9 11G	G07_011N9	TO->FROM	UTICA - YANKON JCT 115KV CKT 1	66	0.48812	100.256	CREIGHTON - NELIGH 115KV CKT 1
07G08_023	11G	G08_023	TO->FROM	CARNEGIE - HOBART JUNCTION 138KV CKT 1	143	0.44864	104.6587	HOBART JUNCTION - OMPA-ALTUS TAMARACK 138KV CKT 1
07G08_023	11G	G08_023	TO->FROM	CARNEGIE - HOBART JUNCTION 138KV CKT 1	143	0.44864	101.3335	OMPA-ALTUS TAMARACK - OMPVET-4 138.00 138KV CKT 1
04G08_025	11G	G08_025	TO->FROM	CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1	143	0.19247	107.9194	CNTRLPL3 115.00 - SETAB 115KV CKT 1
04G08_025	11G	G08_025	FROM->TO	CNTRLPL3 115.00 - SETAB 115KV CKT 1	143	0.19247	107.8909	CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1
04G08_025	11G	G08_025	FROM->TO	CNTRLPL3 115.00 - SETAB 115KV CKT 1	143	0.19247	107.5177	SPP-SUNC-12
	4 11G	G08_025	TO->FROM	CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1	143	0.19262	105.2398	CNTRLPL3 115.00 - SETAB 115KV CKT 1
	4 11G	G08_025	FROM->TO	CNTRLPL3 115.00 - SETAB 115KV CKT 1	143	0.19262	105.2113	CITIES SERVICE TAP - CNTRLPL3 115.00 115KV CKT 1
	4 11G	G08_025	FROM->TO	CNTRLPL3 115.00 - SETAB 115KV CKT 1	143	0.19262	104.838	SPP-SUNC-12
04G08_025	11G	G08_025	FROM->TO	CNTRLPL3 115.00 - SETAB 115KV CKT 1	143	0.19247	104.586	CITIES SERVICE TAP - SETAB 115KV CKT 1
04G08_025	11G	G08_025	FROM->TO	CITIES SERVICE TAP - SETAB 115KV CKT 1	143	0.19247	104.1862	CNTRLPL3 115.00 - SETAB 115KV CKT 1
	4 11G	G08_025	FROM->TO	CNTRLPL3 115.00 - SETAB 115KV CKT 1	143	0.19262	101.9129	CITIES SERVICE TAP - SETAB 115KV CKT 1

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	PDF	TCLOADING	CONTINGENCY NAME
4	11G	G08_025	FROM->TO	CITIES SERVICE TAP - SETAB 115KV CKT 1	143	0.19262	101.5092	CNTRLPL3 115.00 - SETAB 115KV CKT 1
08G08_038	11G	G08_038	FROM->TO	FAIRFAX 138/69KV TRANSFORMER CKT 1	56	0.2147	196.7872	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	FAIRFAX 138/69KV TRANSFORMER CKT 1	56	0.2147	190.1557	OSAGE - WEBB CITY TAP 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.77979	188.7845	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1
8	11G	G08_038	FROM->TO	FAIRFAX 138/69KV TRANSFORMER CKT 1	56	0.21494	184.8826	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.77979	181.296	OSAGE - WEBB CITY TAP 138KV CKT 1
8	11G	G08_038	FROM->TO	FAIRFAX 138/69KV TRANSFORMER CKT 1	56	0.21494	178.0347	OSAGE - WEBB CITY TAP 138KV CKT 1
8	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.78066	172.123	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1
8	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.78066	164.6938	OSAGE - WEBB CITY TAP 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.82427	159.8028	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.82427	159.3558	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.82427	155.4954	DOMES - PAWHUSKA TAP 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.82427	154.1579	DOMES - MOUND ROAD 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.82427	148.7054	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.82427	148.3083	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
8	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.82519	145.6963	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1
8	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.82519	145.2514	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.82427	144.8777	DOMES - PAWHUSKA TAP 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.82427	143.6906	DOMES - MOUND ROAD 138KV CKT 1
8	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.82519	141.4327	DOMES - PAWHUSKA TAP 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1	192	0.77979	140.1267	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1
8	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.82519	140.0961	DOMES - MOUND ROAD 138KV CKT 1
8	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.82519	136.1785	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	DOMES - PAWHUSKA TAP 138KV CKT 1	192	0.77979	135.851	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1
8	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.82519	135.7836	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1	192	0.77979	134.5468	OSAGE - WEBB CITY TAP 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	DOMES - MOUND ROAD 138KV CKT 1	192	0.77979	134.4417	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1
8	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.82519	132.3946	DOMES - PAWHUSKA TAP 138KV CKT 1
8	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.82519	131.2085	DOMES - MOUND ROAD 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	DOMES - PAWHUSKA TAP 138KV CKT 1	192	0.77979	130.2856	OSAGE - WEBB CITY TAP 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	DOMES - MOUND ROAD 138KV CKT 1	192	0.77979	128.8785	OSAGE - WEBB CITY TAP 138KV CKT 1
8	11G	G08_038	TO->FROM	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1	192	0.78066	127.715	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1	133	0.55163	124.8901	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1
8	11G	G08_038	TO->FROM	DOMES - PAWHUSKA TAP 138KV CKT 1	192	0.78066	123.4729	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1
8	11G	G08_038	TO->FROM	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1	192	0.78066	122.1806	OSAGE - WEBB CITY TAP 138KV CKT 1
8	11G	G08_038	FROM->TO	DOMES - MOUND ROAD 138KV CKT 1	192	0.78066	122.0681	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1	133	0.55163	119.292	OSAGE - WEBB CITY TAP 138KV CKT 1
8	11G	G08_038	TO->FROM	DOMES - PAWHUSKA TAP 138KV CKT 1	192	0.78066	117.9527	OSAGE - WEBB CITY TAP 138KV CKT 1
8	11G	G08_038	FROM->TO	DOMES - MOUND ROAD 138KV CKT 1	192	0.78066	116.5534	OSAGE - WEBB CITY TAP 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.52558	115.3168	ASGI-10-06 138.00 - FAIRFAX 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.52558	115.3035	FAIRFAX 138/69KV TRANSFORMER CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.46891	114.2439	ASGI-10-06 138.00 - FAIRFAX 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.46891	114.2365	FAIRFAX 138/69KV TRANSFORMER CKT 1
8	11G	G08_038	TO->FROM	BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1	133	0.55224	112.4584	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	109.6518	GEN511839 1-NORTHEASTERN STATION #2
08G08_038	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.52558	109.2209	ASGI-10-06 138.00 - FAIRFAX 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.52558	109.2092	FAIRFAX 138/69KV TRANSFORMER CKT 1
08G08_038	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.46808	109.0509	GEN514805 1-SOONER UNIT 1
08G08_038	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.46808	108.4	SOONER 138/22.0KV TRANSFORMER CKT 1
08G08_038	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.46808	107.2111	BASE CASE
8	11G	G08_038	TO->FROM	BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1	133	0.55224	106.9303	OSAGE - WEBB CITY TAP 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.56472	106.7729	BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1
8	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.52617	105.94	ASGI-10-06 138.00 - FAIRFAX 138KV CKT 1
8	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.52617	105.9273	FAIRFAX 138/69KV TRANSFORMER CKT 1
00G08_038	11WP	G08_038	FROM->TO	G08-38T 138.00 - SHIDLER 138KV CKT 1	143	0.99465	105.4454	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TCLOADING	CONTINGENCY NAME
00G08_038	16WP	G08_038	FROM->TO	G08-38T 138.00 - SHIDLER 138KV CKT 1	143	0.99513	105.4043	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.45609	105.3618	SOONER (SOONERS) 345/138/13.8KV TRANSFORMER CKT 1
00G08_038	11SP	G08_038	FROM->TO	G08-38T 138.00 - SHIDLER 138KV CKT 1	143	0.99609	105.3513	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1
00G08_038	16SP	G08_038	FROM->TO	G08-38T 138.00 - SHIDLER 138KV CKT 1	143	0.99639	105.3212	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1
00G08_038	16SP	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.99639	105.2314	G08-38T 138.00 - SHIDLER 138KV CKT 1
00G08_038	11SP	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.99609	105.175	G08-38T 138.00 - SHIDLER 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - SHIDLER 138KV CKT 1	143	0.99449	105.1146	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1
00G08_038	16WP	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.99513	105.0801	G08-38T 138.00 - SHIDLER 138KV CKT 1
00G08_038	11WP	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.99465	105.0631	G08-38T 138.00 - SHIDLER 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.99449	105.0052	G08-38T 138.00 - SHIDLER 138KV CKT 1
8	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.46942	104.7874	ASGI-10-06 138.00 - FAIRFAX 138KV CKT 1
8	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.46942	104.7805	FAIRFAX 138/69KV TRANSFORMER CKT 1
00G08_038	16WP	G08_038	FROM->TO	G08-38T 138.00 - SHIDLER 138KV CKT 1	143	0.99513	104.7266	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
00G08_038	11WP	G08_038	FROM->TO	G08-38T 138.00 - SHIDLER 138KV CKT 1	143	0.99465	104.6199	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
00G08_038	16SP	G08_038	FROM->TO	G08-38T 138.00 - SHIDLER 138KV CKT 1	143	0.99639	104.462	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - SHIDLER 138KV CKT 1	143	0.99449	104.4229	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
00G08_038	11SP	G08_038	FROM->TO	G08-38T 138.00 - SHIDLER 138KV CKT 1	143	0.99609	104.3657	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43286	104.0081	CLEVELAND - SOONER 345KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44128	103.9545	KILDARE4 - NEWKIRK4 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43549	103.7506	MORRISON - STILLWATER 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.46808	103.7342	GENS14805 1-SOONER UNIT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44128	103.5999	NEWKIRK4 - PECKHMT4 138.00 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44128	103.599	CRESWELL - PECKHMT4 138.00 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43079	103.4871	COFFEYVILLE FARMLAND - DELAWARE 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43079	103.4856	DELAWARE (DELAWARE) 345/138/13.8KV TRANSFORMER CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.41993	103.3612	NORTHEAST STATION - RICE CREEK 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43166	103.0062	NEOSHO (NEOSHO1X) 345/138/13.8KV TRANSFORMER CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.41993	102.9083	BARTLESVILLE SOUTHEAST - RICE CREEK 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44696	102.6828	FAIRFAX - PAWNEE 69KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44443	102.6532	FAIRFAX - NAVAL RESERVE 69KV CKT 1
00G08_038	11WP	G08_038	TO->FROM	FAIRFAX TAP - SHIDLER 138KV CKT 1	143	0.99465	102.3775	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	102.2559	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
00G08_038	16WP	G08_038	TO->FROM	FAIRFAX TAP - SHIDLER 138KV CKT 1	143	0.99513	102.2301	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43312	102.2007	G05-167 345.00 - NEOSHO 345KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43497	102.1876	MCELROY - STILLWATER 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43798	102.0289	KILDARE4 - WHITE EAGLE 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	101.9395	GEN336153 1-WATERFORD UNIT#3
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44443	101.7929	NAVAL RESERVE - PAWYA 69KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.42867	101.7754	TULSA NORTH (TULSA N) 345/138/13.8KV TRANSFORMER CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	101.7724	GEN511837 1-NORTHEASTERN STATION # 1-1A
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	101.7723	GEN511838 1-NORTHEASTERN STATION # 1-1B
08G08_038	11G	G08_038	TO->FROM	FAIRFAX TAP - SHIDLER 138KV CKT 1	143	0.99449	101.7072	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43497	101.6976	KINZE - MCELROY 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	101.663	GEN509394 1-FLINT CREEK
08G08_038	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.56472	101.6492	BARTLESVILLE COMANCHE - MOUND ROAD 138KV CKT 1
00G08_038	11WP	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.99465	101.6258	FAIRFAX TAP - SHIDLER 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	101.6253	GEN512689 1-GRDA1 GSU1 22
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	101.5599	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
00G08_038	16WP	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.99513	101.5563	FAIRFAX TAP - SHIDLER 138KV CKT 1
00G08_038	16WP	G08_038	TO->FROM	FAIRFAX TAP - SHIDLER 138KV CKT 1	143	0.99513	101.5515	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
00G08_038	11WP	G08_038	TO->FROM	FAIRFAX TAP - SHIDLER 138KV CKT 1	143	0.99465	101.5509	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.4443	101.3856	2PRSHNGTP 69.000 - PAWYA 69KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	101.3704	GEN511841 1-NORTHEASTERN STATION #4
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	101.3555	GEN511836 1-NORTHEASTERN STATION #1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	101.3333	GEN511840 1-NORTHEASTERN STATION #3

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TCLOADING	CONTINGENCY NAME
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.42592	101.3082	NORTHEAST STATION - WATOVA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43259	101.2383	LACYGNE - NEOSHO 345KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44443	101.2024	2PRSHNGTP 69.000 - TALLANT 69KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	101.1921	GEN512688 2-GRDA1 GSU2 22
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	101.1413	GEN338143 1-INDEPENDENCE UNIT #1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	101.1364	SHIDWFC4 138.00 - WEBB CITY TAP 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	101.0982	GEN338146 1-INDEPENDENCE UNIT #2
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.42592	101.0908	NOWATA - WATOVA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44696	101.0492	HALLETT TAP - PAWNEE 69KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43412	101.0468	CIMARRON - WOODRING 345KV CKT 1
08G08_038	11G	G08_038	TO->FROM	FAIRFAX TAP - SHIDLER 138KV CKT 1	143	0.99449	101.0142	PAWHUSKA TAP - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	100.986	GEN337652 1-WHITE BLUFF UNIT #1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44084	100.9402	BILLING4 - FNTANTP4 138.00 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43454	100.9233	MORRISON - SOONER 138KV CKT 1
8	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.4339	100.9143	GEN511839 1-NORTHEASTERN STATION #2
8	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.52617	100.9047	ASGI-10-06 138.00 - FAIRFAX 138KV CKT 1
8	11G	G08_038	FROM->TO	FAIRFAX TAP - WEBB CITY TAP 138KV CKT 1	192	0.52617	100.8937	FAIRFAX 138/69KV TRANSFORMER CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44084	100.8863	FNTANTP4 138.00 - MARLAND TAP 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44084	100.8839	MARLAND TAP - OSAGE 138KV CKT 1
8	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.46861	100.8432	GEN514805 1-SOONER UNIT 1
00G08_038	11SP	G08_038	TO->FROM	FAIRFAX TAP - SHIDLER 138KV CKT 1	143	0.99609	100.8033	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	100.7894	GEN337653 1-WHITE BLUFF UNIT #2
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44443	100.7338	2SFORKS 69.000 - TALLANT 69KV CKT 1
00G08_038	16SP	G08_038	TO->FROM	FAIRFAX TAP - SHIDLER 138KV CKT 1	143	0.99639	100.6236	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	100.6189	GEN338189 1-LS POWER OSCEOLA UNIT G1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43442	100.612	NORTHWEST - SPRING CREEK 345KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43442	100.6103	SOONER - SPRING CREEK 345KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44084	100.5358	BILLING4 - BUNCH CREEK 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	100.5126	GEN337041 1-GERALD ANDRUS
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.44084	100.4293	BUNCH CREEK - NEENIDT4 138.00 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43421	100.4292	CLEVELAND - TULSA NORTH 345KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.42592	100.4078	BARTLESVILLE SOUTHEAST - NOWATA 138KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43321	100.3743	G05-13T 345.00 - G05-16T 345.00 345KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	100.3568	GEN336251 1-NINEMILE POINT UNIT#4
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	100.2854	GEN512261 1-MUSKOGEE 6G
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43382	100.2775	LACYGNE - WOLF CREEK 345KV CKT 1
08G08_038	11G	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.43343	100.1242	GEN336831 1-BAXTER WILSON SES
8	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.46861	100.1	SOONER 138/22.0KV TRANSFORMER CKT 1
00G08_038	11SP	G08_038	FROM->TO	G08-38T 138.00 - WEST PAWHUSKA 138KV CKT 1	143	0.99609	100	FAIRFAX TAP - SHIDLER 138KV CKT 1
08G08_038	11G	G08_038	TO->FROM	OSAGE - WEBB CITY TAP 138KV CKT 1	170	0.48191	100	BARTLESVILLE SOUTHEAST - NORTH BARTLESVILLE 138KV CKT 1
05G08_051	11G	G08_051	TO->FROM	MOORE COUNTY INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV C	351	0.21039	100.4881	G05-17T 345.00 - Hitchland Interchange 345KV CKT 1
03G08_079	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.35439	276.1907	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.35439	273.0459	SPEARVILLE (SPEARV6L) 230/115/13.8KV TRANSFORMER CKT 1
03G08_079	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.35439	260.58	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.35439	258.0682	SPEARVILLE (SPEARV6L) 230/115/13.8KV TRANSFORMER CKT 1
3	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.3547	256.5839	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
3	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.3547	253.738	SPEARVILLE (SPEARV6L) 230/115/13.8KV TRANSFORMER CKT 1
3	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.3547	244.2954	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
3	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.3547	241.8633	SPEARVILLE (SPEARV6L) 230/115/13.8KV TRANSFORMER CKT 1
03G08_079	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.35574	220.2489	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.35574	212.7006	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.19336	210.4526	SPEARVILLE (SPEARV6L) 345/230/13.8KV TRANSFORMER CKT 1
3	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.35604	204.2764	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.19336	203.9871	SPEARVILLE (SPEARV6L) 345/230/13.8KV TRANSFORMER CKT 1
3	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.19354	202.1828	SPEARVILLE (SPEARV6L) 345/230/13.8KV TRANSFORMER CKT 1

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	PDF	TCLOADING	CONTINGENCY NAME
3	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.35604	198.221	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1
3	11G	G08_079	FROM->TO	MEDICINE LODGE (MED-LDG4) 138/115/2.72KV TRANSFORMER CKT 1	62	0.19354	196.3546	SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1
03G08_079	11G	G08_079	TO->FROM	CUDAHY - G08-79T 115.00 115KV CKT 1	129.5	0.54556	151.8929	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	G01_039AT 115.00 - GREENSBURG 115KV CKT 1	129.5	0.43985	150.7806	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
03G08_079	11G	G08_079	TO->FROM	CUDAHY - G08-79T 115.00 115KV CKT 1	129.5	0.54556	149.6108	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
03G08_079	11G	G08_079	FROM->TO	G01_039AT 115.00 - GREENSBURG 115KV CKT 1	129.5	0.43985	148.562	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
03G08_079	11G	G08_079	FROM->TO	CUDAHY - KISMET 3 115.00 115KV CKT 1	129.5	0.54556	146.6845	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
03G08_079	11G	G08_079	TO->FROM	CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1	129.5	0.54556	145.1997	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	129.5	0.43985	144.5417	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	CUDAHY - KISMET 3 115.00 115KV CKT 1	129.5	0.54556	144.4362	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
03G08_079	11G	G08_079	TO->FROM	CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1	129.5	0.54556	142.9571	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
03G08_079	11G	G08_079	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	129.5	0.43985	142.3236	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
03G08_079	11G	G08_079	TO->FROM	CIMARRON RIVER PLANT - CIMARRON RIVER TAP 115KV CKT 1	89.6	0.46029	142.2111	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
03G08_079	11G	G08_079	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	129.5	0.43985	141.6258	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
03G08_079	11G	G08_079	TO->FROM	CIMARRON RIVER PLANT - CIMARRON RIVER TAP 115KV CKT 1	89.6	0.46029	139.7385	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
03G08_079	11G	G08_079	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	129.5	0.43985	139.4502	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
3	11G	G08_079	FROM->TO	G01_039AT 115.00 - GREENSBURG 115KV CKT 1	129.5	0.44022	138.0043	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
3	11G	G08_079	FROM->TO	G01_039AT 115.00 - GREENSBURG 115KV CKT 1	129.5	0.44022	136.1167	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
3	11G	G08_079	TO->FROM	CUDAHY - G08-79T 115.00 115KV CKT 1	129.5	0.546	135.5257	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
3	11G	G08_079	TO->FROM	CUDAHY - G08-79T 115.00 115KV CKT 1	129.5	0.546	133.6873	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
3	11G	G08_079	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	129.5	0.44022	131.7259	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
3	11G	G08_079	FROM->TO	CUDAHY - KISMET 3 115.00 115KV CKT 1	129.5	0.546	130.421	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
3	11G	G08_079	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	129.5	0.44022	129.8697	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
3	11G	G08_079	TO->FROM	CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1	129.5	0.546	128.9385	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
3	11G	G08_079	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	129.5	0.44022	128.9088	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
3	11G	G08_079	FROM->TO	CUDAHY - KISMET 3 115.00 115KV CKT 1	129.5	0.546	128.5959	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
3	11G	G08_079	TO->FROM	CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1	129.5	0.546	127.1153	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
3	11G	G08_079	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	129.5	0.44022	127.0453	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
3	11G	G08_079	TO->FROM	CIMARRON RIVER PLANT - CIMARRON RIVER TAP 115KV CKT 1	89.6	0.46066	123.4486	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1	177.7	0.76907	121.519	CUDAHY - G08-79T 115.00 115KV CKT 1
3	11G	G08_079	TO->FROM	CIMARRON RIVER PLANT - CIMARRON RIVER TAP 115KV CKT 1	89.6	0.46066	121.2855	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1
03G08_079	11G	G08_079	FROM->TO	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1	177.7	0.66715	119.7644	G01_039AT 115.00 - GREENSBURG 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1	177.7	0.76907	117.9965	CUDAHY - KISMET 3 115.00 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1	177.7	0.76907	117.0984	CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1	177.7	0.66715	115.971	GREENSBURG - SUN CITY 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	G01_039AT 115.00 - GREENSBURG 115KV CKT 1	129.5	0.44154	114.6763	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1	177.7	0.66715	114.5469	MEDICINE LODGE - SUN CITY 115KV CKT 1
03G08_079	11G	G08_079	TO->FROM	CUDAHY - G08-79T 115.00 115KV CKT 1	129.5	0.54709	114.1485	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1
3	11G	G08_079	FROM->TO	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1	177.7	0.76971	111.1085	CUDAHY - G08-79T 115.00 115KV CKT 1
3	11G	G08_079	FROM->TO	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1	177.7	0.66771	110.8249	G01_039AT 115.00 - GREENSBURG 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	CUDAHY - KISMET 3 115.00 115KV CKT 1	129.5	0.54709	109.132	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	GREENSBURG - SUN CITY 115KV CKT 1	129.5	0.44154	108.4522	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1
3	11G	G08_079	FROM->TO	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1	177.7	0.76971	107.8012	CUDAHY - KISMET 3 115.00 115KV CKT 1
03G08_079	11G	G08_079	TO->FROM	CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1	129.5	0.54709	107.6618	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1
4	11G	G08_079	FROM->TO	HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1	336	0.20799	107.1	G08-17 345.00 - SETAB 345KV CKT 1
4	11G	G08_079	FROM->TO	HOLCOMB (HOLCOMB) 345/115/13.8KV TRANSFORMER CKT 1	336	0.20799	107.1	G08-17 345.00 345/34.5KV TRANSFORMER CKT 1
3	11G	G08_079	FROM->TO	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1	177.7	0.66771	107.0889	GREENSBURG - SUN CITY 115KV CKT 1
3	11G	G08_079	FROM->TO	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1	177.7	0.76971	106.9182	CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1	205	0.54191	105.8	G04_014 230.00 - SPEARVILLE 230KV CKT 1
03G08_079	11G	G08_079	FROM->TO	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1	205	0.54191	105.8	G04_014 230.00 230/34.5KV TRANSFORMER CKT 1
03G08_079	11G	G08_079	TO->FROM	CIMARRON RIVER PLANT - CIMARRON RIVER TAP 115KV CKT 1	89.6	0.28641	105.7636	CIMARRON RIVER TAP - EAST LIBERAL 115KV CKT 1
03G08_079	11G	G08_079	TO->FROM	MEDICINE LODGE - SUN CITY 115KV CKT 1	129.5	0.44154	105.7297	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1
3	11G	G08_079	FROM->TO	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1	177.7	0.66771	105.6921	MEDICINE LODGE - SUN CITY 115KV CKT 1
3	11G	G08_079	FROM->TO	G01_039AT 115.00 - GREENSBURG 115KV CKT 1	129.5	0.44191	105.0675	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1	336	0.52744	105.0348	MULLERGREN - SPEARVILLE 230KV CKT 1

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	PDF	TCLOADING	CONTINGENCY NAME
03G08_079	11G	G08_079	FROM->TO	SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1	336	0.52744	104.7447	MULLERGREN - SPEARVILLE 230KV CKT 1
03G08_079	11G	G08_079	TO->FROM	CUDAHY - G08-79T 115.00 115KV CKT 1	129.5	0.23614	103.8173	HOLCOMB - PLYMELL 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1	205	0.76907	103.7731	CUDAHY - G08-79T 115.00 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1	205	0.66715	102.2022	G01_039AT 115.00 - GREENSBURG 115KV CKT 1
3	11G	G08_079	TO->FROM	CUDAHY - G08-79T 115.00 115KV CKT 1	129.5	0.54753	102.0493	JUDSON LARGE - NORTH JUDSON LARGE SUB 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	NORTH JUDSON LARGE SUB - SPEARVILLE 115KV CKT 1	177.7	0.54236	102.0199	SPP-MKEC-08
03G08_079	11G	G08_079	TO->FROM	CUDAHY - G08-79T 115.00 115KV CKT 1	129.5	0.23614	101.7482	PIONEER TAP - PLYMELL 115KV CKT 1
03G08_079	11G	G08_079	TO->FROM	CUDAHY - G08-79T 115.00 115KV CKT 1	129.5	0.23614	101.7448	SPP-SUNC-14
03G08_079	11G	G08_079	FROM->TO	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1	205	0.76907	101.5763	CUDAHY - G08-79T 115.00 115KV CKT 1
03G08_079	11G	G08_079	TO->FROM	CUDAHY - G08-79T 115.00 115KV CKT 1	129.5	0.34162	101.546	SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1
3	11G	G08_079	FROM->TO	SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1	336	0.52789	101.4778	MULLERGREN - SPEARVILLE 230KV CKT 1
3	11G	G08_079	FROM->TO	SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1	336	0.52789	101.2253	MULLERGREN - SPEARVILLE 230KV CKT 1
03G08_079	11G	G08_079	FROM->TO	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1	205	0.76907	100.7703	CUDAHY - KISMET 3 115.00 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	G01_039AT 115.00 - GREENSBURG 115KV CKT 1	129.5	0.20951	100.0589	SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1
03G08_079	11G	G08_079	FROM->TO	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1	205	0.76907	100.0063	CIMARRON RIVER TAP - KISMET 3 115.00 115KV CKT 1
03G08_079	11G	G08_079	FROM->TO	SPEARVILLE (SPEARVL6) 230/115/13.8KV TRANSFORMER CKT 1	205	0.66715	100	G01_039AT 115.00 - GREENSBURG 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.78038	143.8781	FT RANDAL - UTICA JCT 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.78069	143.8418	DAK02WAPAB2
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.78173	141.143	DAK02WAPAB2
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7814	141.1092	FT RANDAL - UTICA JCT 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77317	140.9925	FT THOMPSON - GRAND ISLAND 345KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77792	138.1612	FT RANDAL - SIOUX CITY 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7745	137.9251	FT THOMPSON - GRAND ISLAND 345KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76173	136.1957	HOSKINS - RAUN 345KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77905	135.8358	FT RANDAL - SIOUX CITY 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77219	135.5017	LN-WAPA6
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77219	135.5017	NEB001NPPB2
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77219	135.4597	FT RANDAL - SPENCER 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77219	135.1676	ONEILL - SPENCER 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76086	134.477	TRF-HOSKINS
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	133.9	COUNCIL BLUFFS 345/26.0KV TRANSFORMER CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	133.4	COUNCIL BLUFFS 345/24.0KV TRANSFORMER CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7627	133.0322	HOSKINS - RAUN 345KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.75532	132.0489	COLUMEAST - NW68TH & HOLDREGE 345KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77316	132.0299	LN-WAPA6
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77316	132.0299	NEB001NPPB2
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77316	131.9744	FT RANDAL - SPENCER 115KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	131.8	COUNCIL BLUFFS 345/26.0KV TRANSFORMER CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77316	131.6925	ONEILL - SPENCER 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76959	131.5151	SIOUX CITY - TWIN CHURCH 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76185	131.4439	TRF-HOSKINS
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77343	131.4006	RASMUSN - UTICA JCT 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	131.3	COUNCIL BLUFFS 345/24.0KV TRANSFORMER CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77112	131.2463	NEB02WAPAB2
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77112	131.052	GAVINS POINT - HARTINGTON 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.74764	130.8092	COLUMWEST - GRAND ISLAND 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77171	130.808	ATC_B2_8E2_G
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77008	130.8028	103RD & ROKEBY - SUB 3458 NEB CTY 345KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77171	130.7791	050 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77184	130.726	FT RANDAL - WHITE SWAN 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	130.7232	GEN640028 1-COLUMCOGENERATION
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77169	130.7207	ATC_B2_8E2
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77169	130.72	050 2
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77184	130.6954	TYNDALL - WHITE SWAN 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	130.677	GEN640009 1-COOPER NUCLEAR STATION

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	PDF	TCLOADING	CONTINGENCY NAME
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77131	130.597	FT THOMPSON - LETCHER 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77343	130.5053	RASMUSN - SIOUX CITY 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	130.4939	GEN645012 2-NEBRASKA CITY 2
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77132	130.4709	ATC_B2_2221_
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76963	130.4164	COOPER - MOORE 345KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77128	130.4106	HANLON - STORLA 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77126	130.3878	PAHOJA - SIOUX FALLS 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	130.3875	GEN645011 1-NEBRASKA CITY 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77131	130.3842	LETCHER - SIOUX FALLS 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77094	130.3817	BLOOMFIELD - CREIGHTON 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77285	130.3627	UTICA JCT - VFODNES 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77163	130.3343	ATC_B2_8E5_G
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77163	130.3054	050_3
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77132	130.2685	KEYSTONE - SIDNEY 345KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77111	130.2487	LN-1164
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77162	130.2469	ARPIN - EAU CLAIRE 345KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	130.2271	LELAND OLDS 230/22.0KV TRANSFORMER CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77111	130.2266	CLEARWATER - ONEILL 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77115	130.1889	CARPENTER - HURON 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7793	129.9922	DAK02WAPAB2
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77901	129.6816	FT RANDAL - UTICA JCT 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7745	129.2163	RASMUSN - UTICA JCT 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.75629	128.9888	COLUMBEAST - NW68TH & HOLDREGE 345KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77217	128.9199	NEB02WAPAB2
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77054	128.714	SIOUX CITY - TWIN CHURCH 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77217	128.703	GAVINS POINT - HARTINGTON 115KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77265	128.6851	ATC_B2_8E2_G
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77264	128.6629	050_1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	128.5621	BASE CASE
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77261	128.5074	ATC_B2_8E2
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77261	128.5072	050_2
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77232	128.4846	HANLON - STORLA 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77227	128.4465	KEYSTONE - SIDNEY 345KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.74854	128.4374	COLUMWEST - GRAND ISLAND 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7745	128.3371	RASMUSN - SIOUX CITY 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	128.3	GEN640028 1-COLUMCOGENERATION
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77228	128.2681	FT RANDAL - WHITE SWAN 115KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77228	128.2368	TYNDALL - WHITE SWAN 115KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77103	128.2132	103RD & ROKEBY - SUB 3458 NEB CTY 345KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77275	128.1713	BONESTEEL - FT RANDAL 115KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77226	128.1034	PAHOJA - SIOUX FALLS 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77224	128.064	FT THOMPSON - LETCHER 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77275	128.0346	BONESTEEL - GREGORY 115KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77221	128.0215	GEN640009 1-COOPER NUCLEAR STATION
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77224	127.9905	LETCHER - SIOUX FALLS 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77371	127.9758	UTICA JCT - VFODNES 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77221	127.9516	GEN645012 2-NEBRASKA CITY 2
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77221	127.9345	LN-1164
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77221	127.9234	LELAND OLDS 230/22.0KV TRANSFORMER CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77221	127.9167	CLEARWATER - ONEILL 115KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77188	127.8942	BLOOMFIELD - CREIGHTON 115KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77238	127.8749	DAK01WAPAB2
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77221	127.863	GROTON - GROTON 115KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77256	127.7939	ATC_B2_8E5_G
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77255	127.7814	050_3

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TCLOADING	CONTINGENCY NAME
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7716	127.0348	908 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77181	127.0061	WINNER - WITTEN 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	126.9569	GEN336831 1-BAXTER WILSON SES
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7722	126.9562	MT VERN - STORLA 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77067	126.8493	HOSKINS 345/230KV TRANSFORMER CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	126.8245	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77121	126.8212	BATTLE CREEK - NORTH NORFOLK 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	126.7472	GEN337652 1-WHITE BLUFF UNIT #1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	126.7382	GEN336251 1-NINEMILE POINT UNIT#4
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77184	126.7214	AINSWORTH - AINSWORTH 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	126.689	GEN336252 1-NINEMILE POINT UNIT#5
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	126.6764	GEN337041 1-GERALD ANDRUS
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77137	126.6601	FT THOMPSON - SELBY 3345.00 345KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77181	126.6355	MAXWELL - STAPLETON 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	126.5868	GEN338143 1-INDEPENDENCE UNIT #1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	126.5402	GEN338146 1-INDEPENDENCE UNIT #2
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77114	126.5272	ATCHSNT3 345.00 - COOPER 345KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	126.4969	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	126.2922	ATCHSNT3 345.00 - BOONEVILLE 345KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	126.2373	BASE CASE
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76953	126.0977	ALBION - GENOA 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	125.9524	GEN335831 1-RIVERBEND UNIT#1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76259	125.6191	COLUMEAST - KELLY 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76259	125.5962	COLUMEAST 230/115KV TRANSFORMER CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	125.5721	GEN336153 1-WATERFORD UNIT#3
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76405	125.5288	COLUMBUS - KELLY 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76405	125.5094	KELLY (KLYT1REG) 230/115/13.2KV TRANSFORMER CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76405	125.5092	TRF-KELLY
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	125.4018	FT RANDAL 115/13.8KV TRANSFORMER CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	125.3516	STEGALL - WAYSIDE 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	125.2411	GEN336821 1-GRAND GULF UNIT
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76953	125.0892	COLUMBUS - GENOA 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.73001	124.9341	SHELL CREEK 345/230KV TRANSFORMER CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.73001	124.9296	KELLY - SHELL CREEK 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77652	124.7543	FT RANDAL - SIOUX CITY 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	124.6635	GEN337652 1-WHITE BLUFF UNIT #1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	124.6549	GEN336251 1-NINEMILE POINT UNIT#4
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7536	124.6292	HOSKINS - SHELL CREEK 345KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77161	124.6114	HOSKINS 345/230KV TRANSFORMER CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	124.6121	GEN336252 1-NINEMILE POINT UNIT#5
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	124.6032	GEN337041 1-GERALD ANDRUS
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	124.5185	GEN338143 1-INDEPENDENCE UNIT #1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	124.4797	GEN338146 1-INDEPENDENCE UNIT #2
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77231	124.4547	ATCHSNT3 345.00 - COOPER 345KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	124.4508	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77047	124.2718	ALBION - GENOA 115KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	124.2683	FT RANDAL 230/13.8KV TRANSFORMER CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77231	124.2276	ATCHSNT3 345.00 - BOONEVILLE 345KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	124.2176	FT RANDAL 230/13.8KV TRANSFORMER CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77117	124.167	FT RANDAL 230/13.8KV TRANSFORMER CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77288	124.1511	AINSWORTH - AINSWORTH 115KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	123.9682	GEN335831 1-RIVERBEND UNIT#1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7727	123.8402	STEGALL - WAYSIDE 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	123.639	GEN336153 1-WATERFORD UNIT#3
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76353	123.425	COLUMEAST 230/115KV TRANSFORMER CKT 1

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TCLOADING	CONTINGENCY NAME
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76498	123.4248	COLUMBUS - KELLY 115KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76498	123.4248	KELLY (KLY1REG) 230/115/13.2KV TRANSFORMER CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76498	123.4246	TRF-KELLY
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76353	123.4242	COLUMEAST - KELLY 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	123.3487	GEN336821 1-GRAND GULF UNIT
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.78017	123.3265	DAKO2WAPAB2
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77047	123.3222	COLUMBUS - GENOA 115KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	123.077	FT RANDAL 115/13.8KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77985	122.9949	FT RANDAL - UTICA JCT 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77672	122.9699	FT RANDAL - LAKE PLATT 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77219	122.4084	RAUN - SIOUX CITY 345KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.75461	122.3467	HOSKINS - SHELL CREEK 345KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77686	122.1779	FT RANDAL - FT THOMPSON 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.73099	122.1403	SHELL CREEK 345/230KV TRANSFORMER CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.73099	122.1329	KELLY - SHELL CREEK 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77672	121.9442	FT THOMPSON - LAKE PLATT 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	121.9359	FT RANDAL 230/13.8KV TRANSFORMER CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	121.8854	FT RANDAL 230/13.8KV TRANSFORMER CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7721	121.8348	FT RANDAL 230/13.8KV TRANSFORMER CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7777	120.9759	FT RANDAL - LAKE PLATT 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77182	120.8619	FT THOMPSON - GRAND ISLAND 345KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.74631	120.7459	COLUMWEST - GRAND ISLAND 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77088	120.2941	LN-WAPA6
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77088	120.2941	NEB001NPBP2
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77785	120.2103	FT RANDAL - FT THOMPSON 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	120.2	COUNCIL BLUFFS 345/26.0KV TRANSFORMER CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.75404	120.1945	COLUMEAST - NW68TH & HOLDREGE 345KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77088	120.1944	FT RANDAL - SPENCER 115KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7777	119.9668	FT THOMPSON - LAKE PLATT 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77342	119.7563	RAUN - SIOUX CITY 345KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7731	119.7552	TRF-STEGALL
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7731	119.7532	NEB01WAPAB3
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	119.7	COUNCIL BLUFFS 345/24.0KV TRANSFORMER CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77088	119.6589	ONEILL - SPENCER 115KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76042	118.8453	HOSKINS - RAUN 345KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77748	118.2092	FT RANDAL - SIOUX CITY 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77206	118.033	RASMUSN - UTICA JCT 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76982	118.0193	NEB02WAPAB2
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76982	117.8171	GAVINS POINT - HARTINGTON 115KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.74631	117.8026	COLUMWEST - KELLY 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77148	117.4555	UTICA JCT - VFODNES 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77206	117.2774	RASMUSN - SIOUX CITY 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.75955	117.0356	TRF-HOSKINS
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	116.9838	GEN640028 1-COLUMCOGENERATION
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76824	116.9592	SIOUX CITY - TWIN CHURCH 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	116.8845	GEN640009 1-COOPER NUCLEAR STATION
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76873	116.8229	103RD & ROKEYB - SUB 3458 NEB CTY 345KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77014	116.734	CARPENTER - HURON 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	116.7167	GEN645012 2-NEBRASKA CITY 2
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76996	116.694	FT THOMPSON - LETCHER 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77035	116.6423	ATC B2_E2_G
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77034	116.6279	050_1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	116.6273	GEN645011 1-NEBRASKA CITY 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77014	116.6261	HURON - WATERTOWN 230KV CKT 2
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76996	116.6183	LETCHER - SIOUX FALLS 230KV CKT 1

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	PDF	TCLOADING	CONTINGENCY NAME
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77014	116.5931	CARPENTER - WATERTOWN 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77033	116.5849	ATC_B2_8E2
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77033	116.5823	050 2
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76992	116.556	HANLON - STORLA 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77049	116.5219	FT RANDAL - WHITE SWAN 115KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77049	116.4857	TYNDALL - WHITE SWAN 115KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76829	116.445	COOPER - MOORE 345KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76876	116.4396	GRAND ISLAND - SWEETWATER 345KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76996	116.3663	ATC_B2_2221_
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	114.8246	BASE CASE
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.74704	114.6397	COLUMWEST - GRAND ISLAND 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.75484	114.2037	COLUM EAST - NW68TH & HOLDREGE 345KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	114.1	COUNCIL BLUFFS 345/26.0KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	113.6	COUNCIL BLUFFS 345/24.0KV TRANSFORMER CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	113.3	BLOOMFIELD 115/34.5KV TRANSFORMER CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77046	113.2227	WINNER - WITTEN 115KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76964	113.2162	COUNCIL BLUFFS - GRIMES 345KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77044	113.1994	MAXWELL - STAPLETON 115KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	113.0907	GEN336251 1-NINEMILE POINT UNIT#4
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	113.0798	GEN336252 1-NINEMILE POINT UNIT#5
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	113.0794	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76931	113.038	HOSKINS 345/230KV TRANSFORMER CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	113.0104	GEN337652 1-WHITE BLUFF UNIT #1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	112.9456	GEN337041 1-GERALD ANDRUS
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	112.918	COLUMWEST 230/34.5KV TRANSFORMER CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76804	112.849	COLUMBUS - SCHUYLER 115KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	112.8431	GEN338143 1-INDEPENDENCE UNIT #1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7702	112.8428	GAVINS POINT - YANKON JCT 115KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7719	112.7888	RAUN - SUB 3451 FT CAL 345KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77168	112.785	LN-WAPA6
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77168	112.785	NEB001NPPB2
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	112.7642	OAHE 115/13.8KV TRANSFORMER CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	112.7494	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76925	112.7108	LAKEFIELD 3 - RAUN 345KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77168	112.6838	FT RANDAL - SPENCER 115KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77004	112.5766	ATCHSNT3 345.00 - COOPER 345KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77298	112.3511	FT THOMPSON - GRAND ISLAND 345KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	112.2439	GEN335831 1-RIVERBEND UNIT#1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77004	112.1733	ATCHSNT3 345.00 - BOONEVILLE 345KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77168	112.1599	ONEILL - SPENCER 115KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77053	112.0336	AINSWORTH - AINSWORTH 115KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7627	111.9708	KELLY (KLVT1REG) 230/115/13.2KV TRANSFORMER CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7627	111.9707	TRF-KELLY
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7627	111.9697	COLUMBUS - KELLY 115KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76125	111.9594	COLUM EAST 230/115KV TRANSFORMER CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76125	111.9551	COLUM EAST - KELLY 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	111.8944	GEN336153 1-WATERFORD UNIT#3
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.74704	111.824	COLUMWEST - KELLY 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77294	111.675	RASMUSN - UTICA JCT 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	111.604	FT RANDAL 115/13.8KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77062	111.557	NEB02WAPAB2
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	111.5236	GEN336821 1-GRAND GULF UNIT
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77062	111.3474	GAVINS POINT - HARTINGTON 115KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77217	111.2645	UTICA JCT - VFODNES 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77294	110.9388	RASMUSN - SIOUX CITY 230KV CKT 1

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	PDF	TOTALLOADING	CONTINGENCY NAME
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76123	110.8733	HOSKINS - RAUN 345KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7708	110.735	HANLON - STORLA 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77036	110.6915	STEGALL - WAYSIDE 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77111	110.6904	050 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	110.6702	GEN640028 1-COLUMCOGENERATION
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77108	110.5627	ATC_B2_8E2
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77108	110.5574	050 2
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77071	110.4685	FT THOMPSON - LETCHER 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77535	110.4629	FT RANDAL - LAKE PLATT 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	110.4433	FT RANDAL 230/13.8KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7695	110.4385	103RD & ROKEBY - SUB 3458 NEB CTY 345KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	110.3903	FT RANDAL 230/13.8KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77073	110.3896	KEYSTONE - SIDNEY 345KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	110.3385	GEN640009 1-COOPER NUCLEAR STATION
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76981	110.3334	FT RANDAL 230/13.8KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77071	110.2495	LETCHER - SIOUX FALLS 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	110.2452	GEN645012 2-NEBRASKA CITY 2
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77124	110.1883	BONESTEEL - FT RANDAL 115KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77128	110.1422	FT RANDAL - WHITE SWAN 115KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77128	110.1021	TYNDALL - WHITE SWAN 115KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7755	109.9154	FT RANDAL - FT THOMPSON 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77535	109.7746	FT THOMPSON - LAKE PLATT 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.72877	109.5615	KELLY - SHELL CREEK 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.72877	109.5588	SHELL CREEK 345/230KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	108.5416	BASE CASE
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77083	108.2806	RAUN - SIOUX CITY 345KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	107.0259	GEN337653 1-WHITE BLUFF UNIT #2
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	107	BLOOMFIELD 115/34.5KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	106.9712	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	106.9529	GEN336251 1-NINEMILE POINT UNIT#4
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	106.9101	GEN337652 1-WHITE BLUFF UNIT #1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	106.857	GEN337041 1-GERALD ANDRUS
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7713	106.8554	MAXWELL - THEDFORD 115KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77008	106.8179	HOSKINS 345/230KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	106.7754	COLUMMWEST 230/34.5KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	106.7597	GEN338143 1-INDEPENDENCE UNIT #1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7688	106.7346	COLUMBUS - SCHUYLER 115KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	106.723	GEN338146 1-INDEPENDENCE UNIT #2
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	106.6745	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77079	106.6282	ATCHSNT3 345.00 - COOPER 345KV CKT 1
09G08_086N2	11G	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77985	106.4417	DAK02WAPAB2
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	106.2369	GEN335831 1-RIVERBEND UNIT#1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77079	106.2332	ATCHSNT3 345.00 - BOONEVILLE 345KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77001	106.2287	LAKEFIELD 3 - RAUN 345KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77101	106.0637	GAVINS POINT - YANKON JCT 115KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76346	105.9316	KELLY (KLYT1REG) 230/115/13.2KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76346	105.9314	COLUMBUS - KELLY 115KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76346	105.9314	TRF-KELLY
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	105.9233	GEN336153 1-WATERFORD UNIT#3
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76202	105.8625	COLUMMEAST 230/115KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76202	105.8585	COLUMMEAST - KELLY 230KV CKT 1
09G08_086N2	11G	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77955	105.7378	FT RANDAL - UTICA JCT 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.75228	105.7021	HOSKINS - SHELL CREEK 345KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	105.5855	GEN336821 1-GRAND GULF UNIT
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77279	105.5263	RAUN - SUB 3451 FT CAL 345KV CKT 1

GROUP	SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	PDF	TCLOADING	CONTINGENCY NAME
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77141	105.4288	AINSWORTH - AINSWORTH 115KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	105.4236	FT RANDAL 115/13.8KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77616	104.9941	FT RANDAL - LAKE PLATT 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77119	104.9463	STEGALL - WAYSIDE 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77145	104.8799	NUNDRWD - WAYSIDE 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77663	104.4923	FT RANDAL - FT THOMPSON 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77616	104.3174	FT THOMPSON - LAKE PLATT 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	104.1828	FT RANDAL 230/13.8KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	104.1301	FT RANDAL 230/13.8KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77057	104.076	FT RANDAL 230/13.8KV TRANSFORMER CKT 1
09G08_086N2	11G	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7771	103.7939	FT RANDAL - SIOUX CITY 230KV CKT 1
09G08_086N2	11G	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.99265	103.5197	FT RANDAL - MADISONCO 230.00 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	FT RANDAL - MADISONCO 230.00 230KV CKT 1	192	0.99478	103.4367	KELLY - MADISONCO 230.00 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	FT RANDAL - MADISONCO 230.00 230KV CKT 1	192	0.99287	103.4367	KELLY - MADISONCO 230.00 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	FT RANDAL - MADISONCO 230.00 230KV CKT 1	192	0.99518	103.4367	KELLY - MADISONCO 230.00 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	FT RANDAL - MADISONCO 230.00 230KV CKT 1	192	0.9935	103.4367	KELLY - MADISONCO 230.00 230KV CKT 1
09G08_086N2	11G	G08_086N2	TO->FROM	FT RANDAL - MADISONCO 230.00 230KV CKT 1	192	0.99265	103.4367	KELLY - MADISONCO 230.00 230KV CKT 1
00G08_086N2	11SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.99478	103.3987	FT RANDAL - MADISONCO 230.00 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.99287	103.3863	FT RANDAL - MADISONCO 230.00 230KV CKT 1
00G08_086N2	16WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.9935	103.3858	FT RANDAL - MADISONCO 230.00 230KV CKT 1
00G08_086N2	16SP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.99518	103.3821	FT RANDAL - MADISONCO 230.00 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7296	102.8445	KELLY - SHELL CREEK 230KV CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.7296	102.8419	SHELL CREEK 345/230KV TRANSFORMER CKT 1
09G08_086N2	11G	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77022	102.1	COUNCIL BLUFFS 345/26.0KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77188	102.0996	RAUN - SIOUX CITY 345KV CKT 1
09G08_086N2	11G	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77022	101.6	COUNCIL BLUFFS 345/24.0KV TRANSFORMER CKT 1
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77159	100.8302	NEB01WAPAB3
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77159	100.8163	TRF-STEGALL
00G08_086N2	11WP	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.77159	100.8045	STEGALL - STEGALL TY 345KV CKT 1
09G08_086N2	11G	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.74678	100.6043	COLUMWEST - GRAND ISLAND 230KV CKT 1
09G08_086N2	11G	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.75456	100.1939	COLUMEAST - NW68TH & HOLDREGE 345KV CKT 1
09G08_086N2	11G	G08_086N2	TO->FROM	KELLY - MADISONCO 230.00 230KV CKT 1	192	0.76947	100.0563	ALBION - PETERSBURG 115KV CKT 1
00G08_129	16SP	G08_129	TO->FROM	KC SOUTH - LONGVIEW 161KV CKT 1	224	0.22165	100.1644	BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1
0 16SP	G08_129	TO->FROM	KC SOUTH - LONGVIEW 161KV CKT 1	224	0.22165	100.1644	BLUE SPRING SOUTH - PRAIRIE LEE 161KV CKT 1	
5 11G	G09_016	TO->FROM	CLINTON JUNCTION - ELK CITY 138KV CKT 1	143	0.31989	110.6354	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1	
5 11G	G09_016	TO->FROM	CLINTON JUNCTION - ELK CITY 138KV CKT 1	143	0.31989	109.5796	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1	
5 11G	G09_016	TO->FROM	CLINTON JUNCTION - ELK CITY 138KV CKT 1	143	0.24095	103.4568	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
5 11G	G09_016	TO->FROM	CLINTON JUNCTION - ELK CITY 138KV CKT 1	143	0.2427	101.2584	DBL-HITCH-WO	
07G09_016	11G	G09_016	TO->FROM	CLINTON JUNCTION - ELK CITY 138KV CKT 1	143	0.24328	101.1629	GEN560655 1-G07-32 12.00C
5 11G	G09_016	TO->FROM	CLINTON JUNCTION - ELK CITY 138KV CKT 1	143	0.24279	100.4744	NORTHWEST - TATONGA7 345.00 345KV CKT 1	

H: ACCC Analysis (No Prior Queued Upgrades)