

Feasibility Cluster Study for Generator Interconnection Requests (FCS-2016-001)

March 2016

Generator Interconnection Studies



Revision History

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| 03/16/2016 | SPP | Report Issued (FCS-2016-001). |

Executive Summary

Generator Interconnection customers have requested a Feasibility Study under the Generator Interconnection Procedures (GIP) in the Southwest Power Pool Open Access Transmission Tariff (OATT). The Interconnection Customers' requests have been clustered together for the following Feasibility Cluster Study (FCS) window which closed December 31, 2015¹. This Feasibility Cluster Study analyzes generation interconnection requests totaling approximately 430.4 MW which would be located within the transmission systems of Southwestern Public Service (SPS) and Nebraska Public Power District (NPPD). The generation interconnection requests have a proposed in-service dates². The generation interconnection requests included in this Feasibility Cluster Study are listed in Appendix A by queue number, amount, requested interconnection service, area, requested interconnection point, proposed interconnection point, and the requested in-service date.

Power flow analysis has indicated that for the power flow cases studied, 430.4 MW of nameplate generation may be interconnected with transmission system reinforcements within the AEPW, NPPD, SPS, and WERE transmission system. The need for reactive compensation in accordance with Order No. 661-A for wind farm interconnection requests will be evaluated in the Preliminary Interconnection System Impact Study (PISIS) and Definitive Interconnection System Impact Study (DISIS) based on the wind turbine manufacturer and type requested by the Customer. Dynamic stability studies performed as part of the PISIS and DISIS Cluster Studies will provide additional guidance as to whether required reactive compensation can be static or a portion must be dynamic (such as a SVC).

Two (2) Point of Interconnection (POI) assumption analyses were conducted for GEN-2015-099 primary and secondary POIs, and GEN-2015-101 primary and secondary POIs, and one POI analysis was conducted for GEN-2015-100. **Table 1** displays the five (5) Energy Resource Interconnection Service (ERIS) analyses that were performed. Interconnection Requests dispatching is explained in further detail in the Model Development Section. Please note, if the Interconnection Customers proceed into the Preliminary Interconnection System Impact Study (PISIS) or Definitive Interconnection System Impact Study (DISIS), the Interconnection Customer can propose only one Point of Interconnection (POI).

¹ The Integrated System including Western Area Power Administration – Upper Great Plains Region, Basin Electric Power Cooperative, and Heartland Consumers Power District (Collectively the I.S. Parties) Feasibility study window closing was October 22, 2015.

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.

Table 1: Five (5) ERIS Analysis Assumptions

| Scenario Number | Scenario Description | Interconnection Requests | Point of Interconnection (POI) |
|-----------------|------------------------------------|--------------------------|-----------------------------------|
| Scenario #1 | Group 6 GEN-2015-099 Primary POI | GEN-2015-099 | Hobbs 115kV |
| Scenario #2 | Group 6 GEN-2015-099 Secondary POI | GEN-2015-099 | Maddox 115kV |
| Scenario #3 | Group 9 GEN-2015-100 Primary POI | GEN-2015-100 | Fairbury 115kV |
| Scenario #4 | Group 6 GEN-2015-101 Primary POI | GEN-2015-101 | Tap Plant X – Deaf Smith 230kV |
| Scenario #5 | Group 6 GEN-2015-101 Secondary POI | GEN-2015-101 | Tap Potter County - Newhart 230kV |

The applicable analysis from the five (5) ERIS analysis assumption were also analyzed for Network Resource Interconnection Service (NRIS).

In no way does this study guarantee operation for all periods of time. This interconnection study identifies and assigns transmission reinforcements for Energy Resource Interconnection Service (ERIS) interconnection injection constraints and Network Resource Interconnection Service (NRIS) constraints if requested by the Customer. This interconnection study does not assign transmission reinforcements for all potential transmission constraints. It should be noted that although this study analyzed many of the most probable contingencies, it is not an all-inclusive list and cannot account for every operational situation. Because of this, it is likely that the Customer(s) may be required to reduce their generation output to 0 MW, also known as curtailment, under certain system conditions to allow system operators to maintain the reliability of the transmission network.

The total estimated minimum cost for interconnecting the studied generation interconnection requests for each analysis is listed in **Table 2**.

Table 2: Total estimated minimum cost for Interconnecting the Studied Generation Interconnection Request(s)

| Analysis Number | Estimated Minimum Costs (\$) |
|-----------------|------------------------------|
| Scenario #1 | \$1,200,000 |
| Scenario #2 | \$2,000,000 |
| Scenario #3 | \$53,457,000 |
| Scenario #4 | \$17,400,000 |
| Scenario #5 | \$22,000,000 |

These costs are shown in Appendices E and F. The one-line diagrams in Appendix D should be consulted for details of the alternate POIs. These costs do not include the Interconnection Customer Interconnection Facilities as defined by the SPP Open Access Transmission Tariff (OATT). This cost does not include the possible need for reactive compensation or additional interconnection facilities or network upgrades that may be identified through additional analyses performed in the PISIS and DISIS.

The powerflow results listed in this report were obtained by analyzing the 430.4 MW of Feasibility Study Interconnection Requests in addition to all prior queued Interconnection Requests including 10,000MW studied in DISIS-2015-002. DISIS-2015-002 Interconnection Requests have been cost assigned \$1,700,000 of potential Network Upgrades which are assumed in service in this analysis. If any Interconnection Requests are withdrawn from the highered queued studies including DISIS-2015-002, then potential upgrades tentatively assigned to those Interconnection Requests may be assigned to the Interconnection Requests in this FCS-2016-001 study once these Interconnection Requests execute a Definitive Interconnection System Impact Study Agreement.

Network Constraints listed in Appendix H are located in the local area of the new generation when this generation is injected throughout the SPP footprint for the Energy Resource Interconnection Service (ERIS) Interconnection Request. Certain interconnection requests have been studied for Network Resource Interconnection Service (NRIS). Those constraints are also listed in Appendix H. Additional Network constraints will have to be verified with a Transmission Service Request (TSR) and associated studies. With a defined source and sink in a TSR, this list of Network Constraints will be refined and expanded to account for all Network Upgrade requirements.

The required interconnection costs listed in Appendix E and F do not include all costs associated with the deliverability of the energy to final customers. These costs are determined by separate studies if the Customer submits a Transmission Service Request through SPP's Open Access Same Time Information System (OASIS) as required by Attachment Z1 of the SPP OATT.

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Introduction

Generator Interconnection customers have requested a Feasibility Study under the Generator Interconnection Procedures (GIP) in the Southwest Power Pool Open Access Transmission Tariff (OATT). The Interconnection Customers' requests have been clustered together for the following Feasibility Cluster Study (FCS) window which closed December 31, 2015³. This Feasibility Cluster Study analyzes generation interconnection requests totaling approximately 430.4 MW which would be located within the transmission systems of Southwestern Public Service (SPS) and Nebraska Public Power District (NPPD). The generation interconnection requests have various proposed in-service dates⁴. The generation interconnection requests included in this Feasibility Cluster Study are listed in Appendix A by queue number, amount, area, requested interconnection service, requested interconnection point, proposed interconnection point, and the requested in-service date.

Table 1 displays the five (5) Energy Resource Interconnection Service (ERIS) analysis that were performed. Interconnection Requests dispatching is explained in further detail in the Model Development Section. The applicable analysis from the five (5) ERIS analyses assumptions were also analyzed for Network Resource Interconnection Service (NRIS). Please note, if the Interconnection Customers proceed into the Preliminary Interconnection System Impact Study (PISIS) or Definitive Interconnection System Impact Study (DISIS), the Interconnection Customer can propose only one Point of Interconnection (POI).

The primary objective of this Feasibility Cluster Study is to identify the system constraints associated with connecting the generation to the area transmission system. The Feasibility 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.

³ Please refer to footnote #1.

⁴ The generator interconnection requests in-service dates will need to be deferred based on the required lead time for the Network Upgrades necessary. The Interconnection Customer's that proceed to the Facility Study will be provided a new in-service date based on the competition of the Facility Study.

Model Development

Interconnection Requests Included in the Cluster

SPP has included all interconnection requests that submitted a Feasibility Study Agreement no later than December 31st, 2015⁵ and were subsequently accepted by Southwest Power Pool under the terms of the Generator Interconnection Procedures (GIP) effective at the time of this study. The Interconnection Request(s) that are included in this study are listed in Appendix A.

Previously Queued Interconnection Requests

The previously queued Interconnection Requests included in this study are listed in Appendix B. In addition to the Base Case Upgrades, the previously queued requests and associated upgrades were assumed to be in-service and added to the Base Case models. These projects were dispatched as Energy Resources Interconnection Service (ERIS) and/or Network Resources Interconnection Service (NRIS) (in accordance with the individual Generator Interconnection Requests) with equal distribution across the SPP footprint.

Development of Base Cases

The 2015 model series Integrated Transmission Planning Near-Term models (used in the 2016 ITPNT) including the 2016 Winter Peak (16WP), 2017 Spring (17G), 2017 Summer Peak (17SP), 2020 Light Load, Summer and Winter peak (20L,20SP,20WP), and 2025 Summer Peak (25SP) scenario 0 cases were used for this study. After the cases were developed, each of the control areas' resources were then re-dispatched to account for the new generation requests using current dispatch orders.

Base Case Upgrades

The following facilities are part of the SPP Transmission Expansion Plan or the Balanced Portfolio or recently approved Priority Projects. These facilities, have an approved Notice to Construct (NTC), or are in construction stages and were assumed to be in-service at the time of dispatch and added to the base case models. The FCS-2016-001 Interconnection Customers have not been assigned cost for the below listed projects. The FCS-2016-001 Interconnection 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 Feasibility Study Interconnection Customers.

- 2012 Integrated Transmission Plan (2012 ITP10) Projects
 - Woodward-Tatonga-Mathewson-Cimarron 345kV transmission line, scheduled for 2021 in-service⁶
 - Chisholm – Gracemont 345kV transmission line, and Chisholm 345/230kV transformer circuit #1, scheduled for 3/1/2018 in-service⁷

⁵ Please refer to footnote #1.

⁶ SPP Notification to Construct (NTC) 200223

- 2015 Integrated Transmission Plan Near Term (2015 ITPNT) Projects
 - China Draw 115kV Reactive Power Support
 - 200Mvar Capacitive and 50Mvar Inductive Static Var Compensator (SVC)
 - Road Runner 115kV Reactive Power Support
 - 200Mvar Capacitive and 50Mvar Inductive Static Var Compensator (SVC)
 - Potash Junction – Intrepid – IMC #1 – Livingston Ridge 115kV rebuild
 - National Enrichment Plant – Targa – Cardinal 115kV circuit #1 rebuild
- Gentleman – Thedford (Cherry County) – Holt County 345kV circuit #1 scheduled for 2018 in-service⁸
- Hoskins – Neligh East 345/115 kV Project⁹
 - Neligh East 345/115 kV substation and transformer
 - Neligh East Area 115 kV upgrades to support new station
 - Hoskins – Neligh East 345 kV circuit #1
- High Priority Incremental Loads (HPILs) Projects¹⁰:
 - TUCO Interchange – Yoakum – Hobbs Interchange 345/230 kV Project
 - TUCO Interchange – Yoakum – Hobbs Interchange 345 kV circuit #1 and associated terminal equipment upgrades
 - Hobbs 345/230/13 kV transformer circuit #1
 - Yoakum 345/230/13 kV transformer circuit #1
 - Battle Axe – Road Runner 115 kV circuit #1
 - Chaves County – Price – CV Pines – Capitan 115 kV circuit #1
 - China Draw – Yeso Hills 115 kV circuit #1
 - Dollarhide – Toboso Flats 115 kV circuit #1
 - Hobbs Interchange – Kiowa 345 kV circuit #1
 - Kiowa – North Loving – China Draw 345/115 kV Projects
 - Kiowa – North Loving – China Draw circuit #1 and associated terminal equipment upgrades
 - China Draw 345/115/13 kV transformer circuit #1
 - North Loving 345/115/13 kV transformer circuit #1
 - Kiowa – Road Runner 345/230/115 kV Projects
 - Kiowa 345/230 kV transformer circuit #1
 - Road Runner 345/115/13 kV transformer circuit #1
 - Livingston Ridge – Sage Brush – Lagarto – Cardinal 115 kV circuit #1
 - North Loving – South Loving 115 kV circuit #1
 - Ponderosa – Ponderosa Tap 115 kV circuit #1
 - Potash 230/115/13kV Transformer circuit #1 replacement

⁷ SPP Notification to Construct (NTC) 200240 and 200255

⁸ SPP Notification to Construct (NTC) 200220

⁹ SPP Regional Reliability 2012 ITP 10 Project Per SPP-NTC-200220

¹⁰ Per Network Upgrades assigned in High Priority Incremental Loads (HPILs) study, Including Direct Assigned Upgrades, Projects in SPP-NTC-200256 and SPP-NTC-200283.

- Nebraska City – Mullin Creek – Sibley 345kV circuit #1 build, scheduled for 12/31/2016 in-service¹¹
- Viola 345/138kV Project¹²
 - Clearwater – Viola 138kV circuit #1
 - Gill – Viola 138kV circuit #1
 - Sumner County – Viola 138kV circuit #1
 - Viola 345/138/13kV transformer circuit #1

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 FCS-2016-001 study and are assumed to be in service. This list may not be all inclusive. The FCS-2016-001 Interconnection Customers at this time do not have responsibility for these facilities but may later be assigned the cost of these facilities if higher queued customers terminate their GIA or withdraw from the interconnection queue. The FCS-2016-001 Interconnection Customer Generation Facilities in-service dates may need to be delayed until the completion of the following upgrade(s).

- Upgrades assigned to DISIS-2010-002 Interconnection Customers:
 - Twin Church – Dixon County 230 kV circuit #1, rerate (320 MVA)
 - Buckner – Spearville 345 kV, terminal equipment
- Upgrades assigned to DISIS-2011-001 Interconnection Customers:
 - Hoskins – Dixon County – Twin Church 230 kV circuit #1, conductor clearance increase
 - (NRIS only) Woodward District EHV Phase Shifting Transformer
- Upgrades assigned to DISIS-2012-002 Interconnection Customers:
 - Associated Electric Cooperatives Inc. (AECI) Fairfax 138/69 kV transformer, replacement
 - Lake Creek – Lone Wolf 69 kV circuit #1, reset CT
 - Remington – Fairfax 138 kV circuit #1, conductor clearance increase
- Upgrades assigned to DISIS-2013-002 Interconnection Customers:
 - Battle Creek – County Line – Neligh East 115kV circuit #1, rebuild
- Upgrades assigned to DISIS-2014-002 Interconnection Customers:
 - Arnold – Ransom 115kV circuit #1, terminal equipment replacement
 - Tolk – Plant X 230kV circuit #1 and circuit #2, re-conductor
 - Tuco 345/230/13kV Transformer circuit #1, replacement
- Upgrades assigned to DISIS-2015-001 Interconnection Customers:
 - Altus SW – Navajo – Snyder 69kV circuit #1, rebuild
 - Anadarko – Sequoyah – Cornville Tap 138kV circuit #1, rebuild
 - Beach – GEN-2010-048 Tap circuit #1, replace terminal equipment

¹¹ SPP Notification to Construct (NTC) 20097 and 20098

¹² SPP Notification to Construct (NTC) 200228 and 200296

- Cimarron River Tap – Kismet – Cudahy – Crooked Creek 115kV circuit #1, rebuild
- Cornville Tap – Naples Tap – Payne 138kV circuit #1, rebuild
- Greenburg – Shooting Star 115kV circuit #1, rebuild
- Kress Interchange – Swisher 115kV circuit #1, replace terminal equipment
- Nichols – Grapevine – Wheeler 230kV circuit #1, replace terminal equipment
- Oklaunion 345kV Reactive Power Support
 - Install two (2) -130Mvar Capacitor Bank(s) at Oklaunion
- Stateline – Sweetwater 230kV circuit #1, replace terminal equipment
- (NRIS Only) Bushland – Potter County 230kV circuit #1, replace terminal equipment
- (NRIS Only) Carlisle – LP-Doug 115kV circuit #1, replace terminal equipment
- (NRIS Only) Carlisle 230/115/13kV Transformer circuit #1, replacement
- (NRIS Only) Cox Interchange – Hale County 115kV circuit #1, rebuild
- (NRIS Only) Crawfish Draw (TUCO 2) 230/115/13kV Transformer circuit #1, build
- (NRIS Only) Kress Interchange – Swisher 115kV circuit #2, build
- (NRIS Only) Potter County Interchange 345/230/13kV Transformer circuit #2, build
- (NRIS Only) Renfrow – Renfrow 138kV circuit #1, rebuild
- (NRIS Only) Sundown 230/115/13kV Transformer circuit #1, replacement
- (NRIS Only) Crawfish Draw Substation 345/230kV
 - Build new 345/230kV substation along TUCO – Border 345kV and TUCO – Swisher 230kV. Tie in and Terminate TUCO 345kV, Border 345kV, TUCO 230kV, and Swisher 230kV at TUCO 2.
 - Build 345/230/13kV transformer circuit #1
- (NRIS Only) Crawfish Draw – TUCO Interchange 230kV circuit #1, replace terminal equipment
- (NRIS Only) TUCO Interchange – Jones 230kV circuit #1, replace terminal equipment
- (NRIS Only) Wolfforth – Terry County 115kV circuit #1, replace terminal equipment
- (NRIS Only) Wolfforth – 230/115/13kV Transformer circuit #1, replacement
- Upgrades assigned to DISIS-2015-002 Interconnection Customers (with the exception of Group 15 and Group 16):
 - Antelope 345/115/13kV Transformer circuit #2, build
 - Beaver County – Grapevine 345kV circuit #1, build
 - Belden – Rasmussen 230kV circuit #1, build
 - Belden 230/115/13kV Transformer circuit #1, build
 - Border – Chisholm 345kV circuit #2, build
 - Border 345kV Reactive Power Support
 - Install six (6) -50Mvar Capacitor Bank(s) and +250Mvar SVC at Border
 - Carlisle 115/69/13kV Transformer circuit#1, replacement
 - Chisholm Substation Upgrade 345kV
 - Tap and terminate Woodward – Border 345kV into Chisholm Substation
 - Chisholm – Elk City 230kV circuit #1, rebuild
 - Cimarron – Minco 345kV circuit #1, replace terminal equipment
 - Cleo Corner – Cleo Plant Tap 138kV circuit #1, replace terminal equipment
 - Cleveland – Cleveland 138kV circuit #Z1, replace bus tie terminal equipment
 - Cleveland – Silver City 138kV circuit #1, rebuild
 - Deaf Smith – GEN-2015-039 Tap 230kV circuit #1, replace terminal equipment

- Dixon County – Belden 230kV circuit #1, build
- Dixon County – Twin Church 345kV circuit #1, Voltage Conversion
 - Convert Dixon Co – Twin Church 230kV to 345kV
- Emporia Energy Center – Swissvale 345kV circuit #1, replace terminal equipment
- GEN-2014-057 – Lawton Eastside 345kV circuit #1, replace terminal equipment
- GEN-2014-057 – Sunnyside 345kV circuit #1, rebuild
- GEN-2014-059 – Ogallala 230kV circuit #2, build
- GEN-2015-085 Tap – Altus Junction 138kV circuit #1, build
- GEN-2015-085 Tap – Russell 138kV circuit #1, replace terminal equipment
- GEN-2015-095 Tap – Rose Valley 138kV circuit #1, rebuild
- Gerald Gentleman Station Flowgate Stability Limit Mitigation
- Grapevine Substation Upgrade 345kV
 - Build Grapevine 345kV Substation
 - Terminate Beaver Co – Grapevine into Grapevine Substation
 - Terminate Potter Co – Grapevine into Grapevine Substation
 - Terminate Grapevine – Chisholm into Grapevine Substation
- Grapevine – Chisholm 345kV circuit #1, build
- Harbine – Beatrice 115kV circuit #1, rebuild
- Holt County – Antelope 345kV circuit #1, build
- Noel SW – Rose Valley 138kV circuit #1, rebuild
- Norge – Southwest Station 138kV circuit #1, rebuild
- Northwest 138kV circuit breaker, replace
- Ogallala – Gerald Gentleman Station 230kV circuit #1, replace terminal equipment
- Oklaunion 345kV Reactive Power Support Incremental Upgrade
 - Install four (4) -50Mvar Capacitor Bank(s) and +300Mvar SVC at Oklaunion
- Albion – Petersburg – North Petersburg 115kV circuit #1, reconductor and replace terminal equipment for at least a 193MVA rating
- Potter County – Grapevine 345kV circuit #1, build
- Shamrock 115kV Capacitor Bank, add second step of 9.6Mvars
- Sidney – GEN-2014-059 Tap 230kV circuit #2, build
- Sidney 230/115/13kV Transformer circuit #1, replacement to at least 150MVA rating
- Smokey Hills – Summit 230kV circuit #1, rebuild
- Swissvale – West Gardner 345kV circuit #1, replace terminal equipment
- Tolk 345/230/13kV Transformer circuit #2, build
- Tolk – Potter County 345kV circuit #1, build
- Tolk – TUCO 2 345kV circuit #1, build
- TUCO 2 – Border 345kV circuit #2, build
- TUCO 2 – Yoakum 345kV Retermination
 - Reterminate TUCO terminal to TUCO 2 terminal by adding approximately 3 miles of 345kV (SPP-NTC-200283)
- Twin Church – Sioux City 345kV circuit #1 Voltage Conversion
 - Convert Twin Church – Sioux City 230kV circuit #1 to 345kV
- Woodward Interchange 230/115/13kV Transformer circuit #1 and #2, replacement
- (NRIS Only) Chappel – Colton 115kV circuit #1, achieve at least 115MVA rating
- (NRIS Only) Chisholm – Sweetwater 230kV circuit #1, rebuild

- (NRIS Only) Colton – Sidney 115kV circuit #1, achieve at least 115MVA rating
- (NRIS Only) Columbus East 230/115/13kV Transformer circuit #1, replacement
- (NRIS Only) Holt County – Grand Island 345kV circuit #1, build
- (NRIS Only) Knoll – Post Rock 230kV circuit #2, build
- (NRIS Only) LP-Wadsworth 230/69/13kV Transformer circuit #1, replacement
- (NRIS Only) Milan Tap – Clearwater 138kV circuit #1, rebuild
- (NRIS Only) Mustang 230/115/13kV Transformer circuit #2, build
- (NRIS Only) Pittsburg – Seminole 345kV circuit #1, replace terminal equipment
- (NRIS Only) Sidney 345/230/13kV Transformer circuit #2, build
- (NRIS Only) South Hays 230/115/13kV Transformer circuit #1, replacement
- (NRIS Only) TUCO – New Deal – Stanton 345/115kV Project
 - Build TUCO – New Deal – Stanton 115kV circuit #1
 - Build New Deal 345/115kV Transformer circuit #1
- (NRIS Only) Tupelo – Tupelo Tap 138kV circuit #2, build
- (NRIS Only) Walkemeyer 345/115/13kV Transformer circuit #2, build

Potential Upgrades Not in the Base Cases

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

Regional Groupings

The Interconnection Request(s) listed in Appendix A are grouped together into two (2) active regional groups based on geographical and electrical impacts. These groupings are shown in Appendix C.

To determine interconnection impacts, five (5) different scenario assumption analyses of the spring, summer, and winter base case models are developed to accommodate the regional groupings.

Power Flow

For Variable Energy Resources (VER) (solar/wind) in each power flow case, Energy Resource Interconnection Service (ERIS), is evaluated for the generating plants within a geographical area of the interconnection request(s) for the VERs dispatched at 100% nameplate of maximum generation. The VERs in the remote areas are dispatched at 20% nameplate of maximum generation. These projects are dispatched across the SPP footprint using load factor ratios.

Peaking units are not dispatched in the 2017 spring, or in the “High VER” summer and winter peaks. To study peaking units’ impacts, the 2016 winter peak, 2017 summer peak, 2020 summer and winter peaks, and 2025 summer peak models are developed with peaking units dispatched at 100% of the nameplate rating and VERs dispatched at 20% of the nameplate rating. Each interconnection request is also modeled separately at 100% nameplate for certain analyses.

All generators (VER and peaking) that requested Network Resource Interconnection Service (NRIS) are dispatched in an additional analysis into the interconnecting Transmission Owner’s (T.O.) area

at 100% nameplate with Energy Resource Interconnection Service (ERIS) only requests at 80% nameplate. This method allows for identification of network constraints that are common between regional groupings to have affecting requests share the mitigating upgrade costs throughout the cluster.

Identification of Network Constraints

The initial set of network constraints were found by using PSS® MUST First Contingency Incremental Transfer Capability (FCITC) analysis on the entire cluster grouping dispatched at the various levels mentioned above. The Energy Resource Interconnection Service (ERIS) constraints were then screened to determine which of the generation interconnection requests had at least a 20% Distribution Factor (DF) upon outage based constraints (n-1) and 3% DF upon system intact constraints (n-0). Interconnection Requests that have requested Network Resource Interconnection Service (NRIS) were studied in the NRIS analysis to determine if any constraint measured at least a 3% DF. If so, these constraints were also considered for mitigation under NRIS. Other network constraints which do not require transmission reinforcements are shown in Appendix H.

Network constraints are found by using PSS® MUST First Contingency Incremental Transfer Capability (FCITC) analysis on the entire cluster grouping dispatched at the various levels previously mentioned. The ERIS constraints are then screened to determine which of the generation interconnection requests have at least a 20% Distribution Factor (DF) upon outage based constraints (n-1) and 3% DF upon system intact constraints (n-0) or on non-convergences case solutions during outage based constraints (n-1). In addition, stability issues are also considered for transmission reinforcement under ERIS. Interconnection Requests that requested Network Resource Interconnection Service (NRIS) are also studied in the NRIS analysis to determine if any constraint measured greater than or equal to a 3% DF. If so, these constraints are also considered for mitigation under NRIS. With a defined source and sink in a Transmission Service Request, this list of network constraints can be refined and expanded to account for all Network Upgrade requirements for firm transmission service.

Constraints that are identified and require transmission reinforcement are listed in Appendix G. These constraints met the criteria for analysis for Energy Resource Interconnection Service and Network Resource Interconnection Service (if requested).

Other network constraints not requiring transmission reinforcements are shown in Appendix H. With a defined source and sink in a Transmission Service Request, this list of network constraints can be refined and expanded to account for all Network Upgrade requirements for firm transmission service.

In no way does the list of constraints in Appendix G identify all potential constraints that guarantee operation for all periods of time. It should be noted that although this study analyzed many of the most probable contingencies, it is not an all-inclusive list and cannot account for every operational

situation. Because of this, it is likely that the Customer(s) may be required to reduce their generation output to 0 MW, also known as curtailment, under certain system conditions to allow system operators to maintain the reliability of the transmission network.

Identification of Electrically Isolated Groups and Requests

From the FCITC analysis, it may be determined that some of the regional groups had no common impacts with the other groups. However, this determination may change as the Interconnection Customers depending upon the time at which the interconnection customers enter either the Preliminary Interconnection System Impact Study (PISIS) or the Definitive Interconnection System Impact Study (DISIS).

Determination of Cost Allocated Network Upgrades

Cost Allocated Network Upgrades of Variable Energy Resources (VER) (solar/wind) generation interconnection requests are determined using the 2017 spring model. Cost Allocated Network Upgrades of peaking units is determined using the 2020 summer peak model. A PSS/E and MUST sensitivity analysis is performed to determine the Distribution Factors (DF), a distribution factor with no contingency that each generation interconnection request has on each new upgrade. The impact each generation interconnection request has on each upgrade project is weighted by the size of each request. Finally the costs due by each request for a particular project are 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:

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

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

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

- 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/Compensation for Amounts Advanced for Network Upgrades

Interconnection Customer shall be entitled to either credits or potentially Long Term Congestion Rights (LTCR), otherwise known as compensation, in accordance with Attachment Z2 of the SPP Tariff for any Network Upgrades, including any tax gross-up or any other tax-related payments associated with the Network Upgrades, and not refunded to the Interconnection Customer.

Interconnection and Network Upgrade Facilities

The generator Interconnection Customers requested interconnection within the transmission systems of Southwestern Public Service (SPS) and Nebraska Public Power District (NPPD).

The requirement to interconnect the 430.4 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 Appendices E and F. The summarized cost for each analysis are listed in **Table 3** below

Table 3: Interconnection Costs

| Analysis Number | Estimated Minimum Costs (\$) |
|-----------------|------------------------------|
| Scenario #1 | \$1,200,000 |
| Scenario #2 | \$2,000,000 |
| Scenario #3 | \$53,457,000 |
| Scenario #4 | \$17,400,000 |
| Scenario #5 | \$22,000,000 |

Appendices E and F also include Interconnection Facilities specific to each generation interconnection request. GEN-2015-099 and GEN-2015-101 requested additional analyses for alternate Points of Interconnection (POIs). The one-line diagrams in Appendix D should be consulted for details of the alternate POIs. Separate cost allocations are included in this report for the alternate Points of Interconnection.

For an explanation of how required Network Upgrades and Interconnection Facilities were determined, refer to the section on “Identification of Network Constraints” above.

A preliminary one-line drawing for each generation interconnection request is listed in Appendix D.

Power Flow Analysis

Power Flow Analysis Methodology

The FCITC function of PSS® MUST was used to simulate single element and special (i.e., breaker-to-breaker, multi-element, etc.) contingencies in portions or all of the modeled control areas of SPP, as well as, other control areas external to SPP and the resulting scenarios analyzed. This satisfies the “more probable” contingency testing criteria mandated by NERC and the SPP criteria.

Power Flow Analysis

A power flow analysis is conducted for each Interconnection Customer’s facility using modified versions of the 2016 winter, 2017 spring and summer, 2020 light load, summer and winter, and 2025 summer peaks. The output of the Interconnection Customer’s facility is 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 Interconnection Service request (ERIS). Certain requests that are also pursuing Network Resource Interconnection Service (NRIS) have an additional analysis conducted for displacing resources in the interconnecting Transmission Owner’s balancing area.

This analysis was conducted assuming that previous queued requests in the immediate area of these interconnect requests were in-service. The analysis of the each Customer’s project indicates that criteria violations will occur on the SPS transmission system under steady state and contingency conditions in the peak seasons.

The need for reactive compensation will be determined during the Interconnection System Impact Study. The need for reactive compensation will be based on the Interconnection Customer’s choice of wind turbine make and manufacturer. Dynamic Stability studies performed as part of the System Impact Cluster Study will provide additional guidance as to whether the reactive compensation can be static or a portion must be dynamic (such as a SVC or STATCOM). It is possible that an SVC or STATCOM device will be required at the Customer facility because of FERC Order 661A Low Voltage Ride-Through Provisions (LVRT) which went into effect January 1, 2006. FERC Order 661A orders that wind farms stay on-line for 3-phase faults at the point of interconnection even if that requires the installation of a SVC or STATCOM device.

Cluster Group 6 (South Texas Panhandle/New Mexico)

In addition to the 6,404.05 MW of previously queued generation in the area, 310.4 MW of new interconnection service was studied. The Interconnection Requests in Group 6 of this Feasibility Study have lower queue priority than the Interconnection Requests in Group 6 of the DISIS-2014-002, DISIS-2015-001, and DISIS-2015-002 studies.

Any change in the status of Interconnection Requests in or any other higher queued DISIS study including DISIS-2015-002 may cause the cost of the above Network Upgrades to become the cost responsibility of the Feasibility Cluster Study Customers. The related overloads are in Appendix H.

Scenario #1 Group 06 GEN-2015-099: No ERIIS constraints were observed for GEN 2015-099 at Hobbs 115kV. New transmission circuit(s), rebuild(s), and/or terminal equipment upgrade(s) for mitigation are listed in Appendix E and F (Scenario #1). See also **Table 4** below.

Scenario #2 Group 06 GEN-2015-099: No ERIIS constraints were observed for GEN 2015-099 at Maddox 115kV. New transmission circuit(s), rebuild(s), and/or terminal equipment upgrade(s) for mitigation are listed in Appendix E and F (Scenario #2). See also **Table 5** below.

Scenario #4 Group 06 GEN-2015-101: ERIIS constraints were observed for GEN 2015-101 on the Tap for Plant X – Deaf Smith 230kV. The Bushland Interchange 230/115kV transformer, terminal equipment on the Coulter – Hillside 115kV line and at Deaf Smith 230kV will need to be replaced. NRIS constraints were observed for Deaf Smith – Panda 115kV and Lubbock-Holly Plant 230/69kV transformer circuit #1. Deaf Smith – Panda 115kV was identified in the 2015 ITPNT Needs Assessment for Regional Reliability with an in-service date of 4/1/2018 (SPP-NTC-200326). New transmission circuit(s), rebuild(s), and/or terminal equipment upgrade(s) for mitigation are listed in Appendix E and F (Scenario #4). See also **Table 6** below.

Scenario #5 Group 06 GEN-2015-101: ERIIS constraints were observed for GEN 2015-101 on the Tap for Potter County – Newhart 230kV. The Potter 345/230kV transformer circuit #1 and #2 are overloading. A third transformer will be needed. NRIS constraints were observed for Lubbock-Holly Plant 230/69kV transformer circuit #1. New transmission circuit(s), rebuild(s), and/or terminal equipment upgrade(s) for mitigation are listed in Appendix E and F (Scenario #5). See also **Table 7** below.

The powerflow results listed below were obtained by analyzing the 310.4 MW of Feasibility Study Interconnection Requests in addition to all prior queued Group 6 Interconnection Requests including the generation in DISIS-2015-002. DISIS-2015-002 Interconnection Requests have been cost assigned \$1,700,000 of potential Network Upgrades which are assumed in service in this analysis.

Table 4: Group 6 Power Flow Analysis (Analysis #1)

| MONITORED ELEMENT | ERIS Constraints | | CONTINGENCY |
|-------------------|------------------|-----------------|-------------|
| | RATE B (MVA) | TC% LOADING (%) | |
| None | | | |

Table 5: Group 6 Power Flow Analysis (Analysis #2)

| MONITORED ELEMENT | ERIS Constraints | | CONTINGENCY |
|-------------------|------------------|-----------------|-------------|
| | RATE B (MVA) | TC% LOADING (%) | |
| None | | | |

Table 6: Group 6 Power Flow Analysis (Analysis #4)

| ERIS Constraints | | | |
|--|--------------|-----------------|--|
| MONITORED ELEMENT | RATE B (MVA) | TC% LOADING (%) | CONTINGENCY |
| BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 350.3 | 105.41 | POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1 |
| BUSHLAND INTERCHANGE (WH 7001795) 230/115/13.2KV TRANSFORMER CKT 1 | 163.4 | 160.17 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| COULTER INTERCHANGE - HILLSIDE 115KV CKT 1 | 155.6 | 105.32 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 | 476.2 | 100.08 | P12:345:SPS:J15.1.XRDS.TOLK |

| NRIS Constraints | | | |
|--|--------------|-----------------|---|
| MONITORED ELEMENT | RATE B (MVA) | TC% LOADING (%) | CONTINGENCY |
| DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1 | 95.8 | 101.16 | BUSHLAND INTERCHANGE - DEAF SMITH 230KV CKT 1 |
| LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 222.3 | 102.92 | LUBBOCK POWER & LIGHT-SOUTHEAST - LUBBOCK SOUTH INTERCHANGE 230KV CKT 1 |

Table 7: Group 6 Power Flow Analysis (Analysis #5)

| ERIS Constraints | | | |
|---|--------------|-----------------|---|
| MONITORED ELEMENT | RATE B (MVA) | TC% LOADING (%) | CONTINGENCY |
| POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 559.0 | 101.39 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 2 |
| POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 2 | 559.8 | 101.32 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 |

| NRIS Constraints | | | |
|--|--------------|-----------------|---|
| MONITORED ELEMENT | RATE B (MVA) | TC% LOADING (%) | CONTINGENCY |
| LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 222.3 | 102.92 | LUBBOCK POWER & LIGHT-SOUTHEAST - LUBBOCK SOUTH INTERCHANGE 230KV CKT 1 |

Cluster Group 9 (Nebraska Area)

In addition to the 3,767.9 MW of previously queued generation in the area, 120 MW of new Interconnection Service was studied. The analysis is described below.

Scenario #3 Group 09 GEN-2015-100: ERIS Constraints were observed along the Emporie Energy Center - Swissvle – West Gardner 345kV transmission circuits. The mitigation for Emporie Energy Center - Swissvle – West Gardner 345kV overloads is to upgrade terminal equipment to alleviate the overloads. Various NRIS constraints were observed along the Lang – Reading Lake – Osage Junction – Scranton – Four Corners – Carbondale 115kV , Mockingbird Hill – Stull Tap – Tecumseh

Hill 115kV, Emporia Energy Center – GEN-2015-050/51 Tap 345kV and Lawrence Energy Center – Swissvale 230kV transmission lines. New transmission circuit(s), rebuild(s), and/or terminal equipment upgrade(s) for mitigation are listed in Appendix E and F (Scenario #4).

Table 8: Group 9 Power Flow Analysis (Analysis #3)

| ERIS Constraints | | | |
|---|--------------|-----------------|--|
| MONITORED ELEMENT | RATE B (MVA) | TC% LOADING (%) | CONTINGENCY |
| BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 114.71 | BEATRICE - HARBINE 115KV CKT 1 |
| BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.1 | 112.98 | BEATRICE - HARBINE 115KV CKT 1 |
| FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.7 | 111.28 | FAIRBURY - HARBINE 115KV CKT 1 |
| FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 191.2 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 188.69 | FAIRBURY - HARBINE 115KV CKT 1 |
| MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 116.2 | BEATRICE - HARBINE 115KV CKT 1 |
| PAULINE - ROSEMONT 115.00 115KV CKT 1 | 115.8 | 123.13 | FAIRBURY - HARBINE 115KV CKT 1 |

| NRIS Constraints | | | |
|--------------------------------------|--------------|-----------------|-----------------------------------|
| MONITORED ELEMENT | RATE B (MVA) | TC% LOADING (%) | CONTINGENCY |
| SWISSVALE - WEST GARDNER 345KV CKT 1 | 714.1 | 104.52 | HOYT - STRANGER CREEK 345KV CKT 1 |

Curtailement and System Reliability

In no way does this study guarantee operation for all periods of time. It should be noted that although this study analyzed many of the most probable contingencies, it is not an all-inclusive list and cannot account for every operational situation. Because of this, it is likely that the Customer(s) may be required to reduce their generation output to 0 MW, also known as curtailment, under certain system conditions to allow system operators to maintain the reliability of the transmission network.

Conclusion

The minimum cost of interconnecting 430.4 MW of new interconnection requests included in this Feasibility Cluster Study are listed in Appendices E and F, which include the Allocated Network Upgrades and Transmission Owner Interconnection Facilities. GEN-2015-099 and GEN-2015-101 requested additional analysis for alternate Points of Interconnection (POIs). Five (5) Point of Interconnection (POI) were conducted for all the possible configurations. The constraints identified for each of these configurations can be found in Appendix G and H.

If the Interconnection Customers proceed into the Preliminary Interconnection System Impact Study (PISIS) or Definitive Interconnection System Impact Study (DISIS), the Interconnection Customer can propose only one Point of Interconnection (POI). The total estimated minimum cost for interconnecting the studied generation interconnection request is given in **Table 11** below.

Table 11. Interconnection Costs

| Analysis Number | Estimated Minimum Costs (\$) |
|-----------------|------------------------------|
| Scenario #1 | \$1,200,000 |
| Scenario #2 | \$2,000,000 |
| Scenario #3 | \$53,457,000 |
| Scenario #4 | \$17,400,000 |
| Scenario #5 | \$22,000,000 |

If the Interconnection Customers proceed into the Preliminary Interconnection System Impact Study (PISIS) or Definitive Interconnection System Impact Study (DISIS), the Interconnection Customer can propose only one Point of Interconnection (POI)

The one-line diagrams in Appendix D should be consulted for details of the alternate POIs. Separate cost allocations are included in this report for the alternate Points of Interconnection. These costs 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 AC power flow analysis, short circuit or transient stability analysis. These studies will be performed if the Interconnection Customer executes the appropriate Interconnection System Impact Study Agreement and provides the required data along with demonstration of Site Control and the appropriate deposit. At the time of the System Impact Cluster Study, a better determination of the interconnection facilities may be available.

The required interconnection costs listed in Appendices E and F, and other upgrades associated with Network Constraints do not include all costs associated with the deliverability of the energy to final customers. These costs are determined by separate studies if the Customer submits a Transmission Service Request (TSR) through SPP's Open Access Same Time Information System (OASIS) as required by Attachment Z1 of the SPP Open Access Transmission Tariff (OATT).

Appendix

A: Generator Interconnection Requests Considered for Study

See next page.

A: Generation Interconnection Requests Considered for Study

| Request | Amount | Service | Area | Requested Point of Interconnection | Proposed Point of Interconnection | Requested In-Service Date | In Service Date Delayed Until no earlier than* |
|---------------|---------------|---------|------|--|--|---------------------------|--|
| GEN-2015-099 | 70.40 | ER | SPS | Hobbs 115kV/Maddox115kV | Hobbs 115kV/Maddox115kV | | TBD |
| GEN-2015-100 | 120.00 | ER/NR | NPPD | Fairbury 115kV | Fairbury 115kV | | TBD |
| GEN-2015-101 | 240.00 | ER/NR | SPS | Tap Plant X - Deaf Smith 230kV/Tap Potter County - Newhart 230kV | Tap Plant X - Deaf Smith 230kV/Tap Potter County - Newhart 230kV | | TBD |
| Total: | 430.40 | | | | | | |

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

B: Prior Queued Interconnection Requests

See next page.

B: Prior Queued Interconnection Requests

| Request | Amount | Area | Requested/Proposed Point of Interconnection | Status or In-Service Date |
|---------------|--------|----------|---|------------------------------|
| ASGI-2010-006 | 150.00 | AECI | Remington 138kV | AECI queue Affected Study |
| ASGI-2010-010 | 42.20 | SPS | Lovington 115kV | Lea County Affected Study |
| ASGI-2010-020 | 30.00 | SPS | Tap LE-Tatum - LE-Crossroads 69kV | Lea County Affected Study |
| ASGI-2010-021 | 15.00 | SPS | Tap LE-Saunders Tap - LE-Anderson 69kV | Lea County Affected Study |
| ASGI-2011-001 | 27.30 | SPS | Lovington 115kV | On-Line |
| ASGI-2011-002 | 20.00 | SPS | Herring 115kV | On-Line |
| ASGI-2011-003 | 10.00 | SPS | Hendricks 69kV | On-Line |
| ASGI-2011-004 | 20.00 | SPS | Pleasant Hill 69kV | Under Study (DISIS-2011-002) |
| ASGI-2012-002 | 18.15 | SPS | FE-Clovis Interchange 115kV | Under Study (DISIS-2012-002) |
| ASGI-2012-006 | 22.50 | SUNCMKEC | Tap Hugoton - Rolla 69kV | Under Study (DISIS-2012-001) |
| ASGI-2013-001 | 11.50 | SPS | PanTex South 115kV | Under Study (DISIS-2013-001) |
| ASGI-2013-002 | 18.40 | SPS | FE Tucumcari 115kV | Under Study (DISIS-2013-001) |
| ASGI-2013-003 | 18.40 | SPS | FE Clovis 115kV | Under Study (DISIS-2013-001) |
| ASGI-2013-004 | 36.60 | SUNCMKEC | Morris 115kV | Under Study (DISIS-2013-002) |
| ASGI-2013-005 | 1.65 | SPS | FE Clovis 115kV | Under Study (DISIS-2013-002) |
| ASGI-2013-006 | 2.00 | SPS | SP-Erskine 115kV | |
| ASGI-2014-001 | 2.50 | SPS | SP-Erskine 115kV | Under Study (DISIS-2014-001) |
| ASGI-2014-002 | 49.60 | SPS | Tap Tucumcari - Santa Rosa 115kV | Under Study (DISIS-2014-001) |
| ASGI-2014-005 | 10.00 | SPS | Strata 69kV | Under Study (DISIS-2014-002) |
| ASGI-2014-008 | 10.00 | SPS | South Loving 69kV | Under Study (DISIS-2014-002) |
| ASGI-2014-009 | 10.00 | SPS | Wood Draw 115kV | Under Study (DISIS-2014-002) |
| ASGI-2014-010 | 10.00 | SPS | Ochoa 115kV | Under Study (DISIS-2014-002) |
| ASGI-2014-012 | 10.00 | SPS | Cooper Ranch 115kV | Under Study (DISIS-2014-002) |
| ASGI-2014-014 | 56.40 | GRDA | Ferguson 69kV | Under Study (DISIS-2014-002) |
| ASGI-2015-001 | 6.13 | SUNCMKEC | Ninnescah 115kV | Under Study (DISIS-2015-001) |
| ASGI-2015-002 | 2.00 | SPS | SP-Yuma 69kV | Under Study (DISIS-2015-001) |
| ASGI-2015-004 | 56.36 | GRDA | Coffeyville City 69kV | Under Study (DISIS-2015-001) |
| ASGI-2015-006 | 9.00 | SWPA | Tupelo 138kV | Under Study (DISIS-2015-002) |
| G255 | 100.00 | XEL | Yankee 115kV | MISO Queued Request |
| G359 | 150.00 | MDU | MDU 230 kV system near Ellendale | MISO Queued Request |
| G380 | 150.00 | OTP | Rugby 115kV | MISO Queued Request |
| G408 | 12.00 | XEL | Tap McHenry - Souris 115kV | MISO Queued Request |
| G502 | 50.60 | MP | Milton Young 230kV | MISO Queued Request |
| G645 | 50.00 | OTP | Ladish 115kV | MISO Queued Request |
| G723 | 10.00 | MDU | Haskett 115kV | MISO Queued Request |
| G752 | 150.00 | MDU | Tap Bison - Hettinger 230kV | MISO Queued Request |
| G788 | 49.00 | GRE | Ladish 115kV | MISO Queued Request |
| G830 | 99.00 | GRE | GRE McHenry 115kV | MISO Queued Request |
| GEN-2001-014 | 96.00 | WFEC | Ft Supply 138kV | On-Line |
| GEN-2001-026 | 74.30 | WFEC | Washita 138kV | On-Line |
| GEN-2001-033 | 180.00 | SPS | San Juan Tap 230kV | On-Line at 120MW |
| GEN-2001-036 | 80.00 | SPS | Norton 115kV | On-Line |
| GEN-2001-037 | 100.00 | OKGE | FPL Moreland Tap 138kV | On-Line |
| GEN-2001-039A | 105.00 | SUNCMKEC | Shooting Star Tap 115kV | On-Line |
| GEN-2001-039M | 100.00 | SUNCMKEC | Central Plains Tap 115kV | On-Line |

| Request | Amount | Area | Requested/Proposed Point of Interconnection | Status or In-Service Date |
|------------------|--------|----------|---|---------------------------|
| GEN-2002-004 | 200.00 | WERE | Latham 345kV | On-Line at 150MW |
| GEN-2002-005 | 120.00 | WFEC | Red Hills Tap 138kV | On-Line |
| GEN-2002-008 | 240.00 | SPS | Hitchland 345kV | On-Line at 120MW |
| GEN-2002-008IS | 40.50 | WAPA | Edgeley 115kV [Pomona 115kV] | Commercial Operation |
| GEN-2002-009 | 80.00 | SPS | Hansford 115kV | On-Line |
| GEN-2002-022 | 240.00 | SPS | Bushland 230kV | On-Line |
| GEN-2002-023N | 0.80 | NPPD | Harmony 115kV | On-Line |
| GEN-2002-025A | 150.00 | SUNCMKEC | Spearville 230kV | On-Line |
| GEN-2003-004 | 100.00 | WFEC | Washita 138kV | On-Line |
| GEN-2003-005 | 100.00 | WFEC | Anadarko - Paradise (Blue Canyon) 138kV | On-Line |
| GEN-2003-006A | 200.00 | SUNCMKEC | Elm Creek 230kV | On-Line |
| GEN-2003-019 | 250.00 | MIDW | Smoky Hills Tap 230kV | On-Line |
| GEN-2003-020 | 160.00 | SPS | Martin 115kV | On-Line |
| GEN-2003-021N | 75.00 | NPPD | Ainsworth Wind Tap 115kV | On-Line |
| GEN-2003-022 | 120.00 | AEPW | Weatherford 138kV | On-Line |
| GEN-2004-014 | 154.50 | SUNCMKEC | Spearville 230kV | On-Line at 100MW |
| GEN-2004-020 | 27.00 | AEPW | Weatherford 138kV | On-Line |
| GEN-2004-023 | 20.60 | WFEC | Washita 138kV | On-Line |
| GEN-2004-023N | 75.00 | NPPD | Columbus Co 115kV | On-Line |
| GEN-2005-003 | 30.60 | WFEC | Washita 138kV | On-Line |
| GEN-2005-003IS | 100.00 | WAPA | Nelson 115kV | Commercial Operation |
| GEN-2005-008 | 120.00 | OKGE | Woodward 138kV | On-Line |
| GEN-2005-008IS | 50.00 | WAPA | Hilken 230kV [Ecklund 230kV] | Commercial Operation |
| GEN-2005-012 | 250.00 | SUNCMKEC | Ironwood 345kV | On-Line at 160MW |
| GEN-2005-013 | 201.00 | WERE | Caney River 345kV | On-Line |
| GEN-2006-001IS | 10.00 | XEL | Marshall 115kV | Commercial Operation |
| GEN-2006-002 | 101.00 | AEPW | Sweetwater 230kV | On-Line |
| GEN-2006-002IS | 51.00 | WAPA | Wessington Springs 230kV | Commercial Operation |
| GEN-2006-006IS | 10.00 | XEL | Marshall 115kV | Commercial Operation |
| GEN-2006-015IS | 50.00 | WAPA | Hilken 230kV [Ecklund 230kV] | Commercial Operation |
| GEN-2006-018 | 170.00 | SPS | TUCO Interchange 230kV | On-Line |
| GEN-2006-020N | 42.00 | NPPD | Bloomfield 115kV | On-Line |
| GEN-2006-020S | 18.90 | SPS | DWS Frisco 115kV | On-Line |
| GEN-2006-021 | 101.00 | SUNCMKEC | Flat Ridge Tap 138kV | On-Line |
| GEN-2006-024S | 19.80 | WFEC | Buffalo Bear Tap 69kV | On-Line |
| GEN-2006-026 | 502.00 | SPS | Hobbs 230kV & Hobbs 115kV | On-Line |
| GEN-2006-031 | 75.00 | MIDW | Knoll 115kV | On-Line |
| GEN-2006-035 | 225.00 | AEPW | Sweetwater 230kV | On-Line at 132MW |
| GEN-2006-037N1 | 75.00 | NPPD | Broken Bow 115kV | On-Line |
| GEN-2006-038N005 | 80.00 | NPPD | Broken Bow 115kV | On-Line |
| GEN-2006-038N019 | 80.00 | NPPD | Petersburg North 115kV | On-Line |
| GEN-2006-043 | 99.00 | AEPW | Sweetwater 230kV | On-Line |
| GEN-2006-044 | 370.00 | SPS | Hitchland 345kV | On-Line at 120MW |
| GEN-2006-044N | 40.50 | NPPD | North Petersburg 115kV | On-Line |
| GEN-2006-046 | 131.00 | OKGE | Dewey 138kV | On-Line |
| GEN-2007-011N08 | 81.00 | NPPD | Bloomfield 115kV | On-Line |
| GEN-2007-013IS | 50.00 | WAPA | Wessington Springs 230kV | Commercial Operation |
| GEN-2007-014IS | 100.00 | WAPA | Wessington Springs 230kV | Commercial Operation |
| GEN-2007-017IS | 166.00 | WAPA | Ft Thompson-Grand Island 345kV | On Schedule |
| GEN-2007-018IS | 234.00 | WAPA | Ft Thompson-Grand Island 345kV | On Schedule |

| Request | Amount | Area | Requested/Proposed Point of Interconnection | Status or In-Service Date |
|-----------------|--------|----------|---|-------------------------------|
| GEN-2007-020IS | 16.00 | WAPA | Nelson 115kV | Commercial Operation |
| GEN-2007-021 | 201.00 | OKGE | Tatonga 345kV | On-Line |
| GEN-2007-023IS | 50.00 | WAPA | Formit-Summit 115kV | On Suspension |
| GEN-2007-025 | 300.00 | WERE | Viola 345kV | On-Line |
| GEN-2007-027IS | 99.00 | WAPA | Bismarck-Garrison 230kV #1 | On Suspension |
| GEN-2007-040 | 200.00 | SUNCMKEC | Buckner 345kV | On-Line at 132MW |
| GEN-2007-043 | 200.00 | OKGE | Minco 345kV | On-Line |
| GEN-2007-044 | 300.00 | OKGE | Tatonga 345kV | On-Line at 199MW |
| GEN-2007-046 | 200.00 | SPS | Hitchland 115kV | On Schedule for 2015 |
| GEN-2007-050 | 170.00 | OKGE | Woodward EHV 138kV | On-Line at 150MW |
| GEN-2007-052 | 150.00 | WFEC | Anadarko 138kV | On-Line |
| GEN-2007-062 | 765.00 | OKGE | Woodward EHV 345kV | On Schedule for 2016 and 2017 |
| GEN-2008-003 | 101.00 | OKGE | Woodward EHV 138kV | On-Line |
| GEN-2008-008IS | 5.00 | WAPA | Nelson 115kV | Commercial Operation |
| GEN-2008-013 | 300.00 | OKGE | Hunter 345kV | On-Line at 235MW |
| GEN-2008-018 | 250.00 | SPS | Finney 345kV | On-Line |
| GEN-2008-021 | 42.00 | WERE | Wolf Creek 345kV | On-Line |
| GEN-2008-022 | 300.00 | SPS | Crossroads 345kV | On-Line |
| GEN-2008-023 | 150.00 | AEPW | Hobart Junction 138kV | On-Line |
| GEN-2008-037 | 101.00 | WFEC | Slick Hills 138kV | On-Line |
| GEN-2008-044 | 197.80 | OKGE | Tatonga 345kV | On-Line |
| GEN-2008-047 | 300.00 | OKGE | Beaver County 345kV | On-Line |
| GEN-2008-051 | 322.00 | SPS | Potter County 345kV | On-Line at 161MW |
| GEN-2008-079 | 99.20 | SUNCMKEC | Crooked Creek 115kV | On-Line |
| GEN-2008-086N02 | 201.00 | NPPD | Meadow Grove 230kV | On-Line |
| GEN-2008-092 | 200.60 | MIDW | Post Rock 230kV | On-Line |
| GEN-2008-098 | 100.80 | WERE | Waverly 345kV | On-Line |
| GEN-2008-119O | 60.00 | OPPD | S1399 161kV | On-Line |
| GEN-2008-124 | 200.10 | SUNCMKEC | Ironwood 345kV | On Schedule for 2016 |
| GEN-2008-129 | 80.00 | KCPL | Pleasant Hill 161kV | On-Line |
| GEN-2009-001IS | 200.00 | WAPA | Groton-Watertown 345kV | On Schedule |
| GEN-2009-006IS | 90.00 | WAPA | Mission 115kV | On Suspension |
| GEN-2009-007IS | 100.00 | WAPA | Mission 115kV | On Suspension |
| GEN-2009-008 | 199.50 | MIDW | South Hays 230kV | On-Line |
| GEN-2009-018IS | 100.00 | WAPA | Groton 115kV | Commercial Operation |
| GEN-2009-020 | 48.30 | MIDW | Walnut Creek 69kV | On-Line |
| GEN-2009-020AIS | 150.00 | WAPA | Tripp Junction 115kV | Commercial Operation |
| GEN-2009-025 | 59.80 | OKGE | Nardins 69kV | On-Line |
| GEN-2009-026IS | 110.00 | WAPA | Dickenson-Heskett 230kV | On Schedule |
| GEN-2009-040 | 73.80 | WERE | Marshall 115kV | On Schedule for 2016 |
| GEN-2010-001 | 300.00 | OKGE | Beaver County 345kV | On-Line |
| GEN-2010-001IS | 99.00 | WAPA | Bismarck-Glenham 230kV | On Schedule |
| GEN-2010-003 | 100.80 | WERE | Waverly 345kV | On-Line |
| GEN-2010-003IS | 34.00 | WAPA | Wessington Springs 230kV | Commercial Operation |
| GEN-2010-005 | 299.20 | WERE | Viola 345kV | On-Line at 170MW |
| GEN-2010-006 | 205.00 | SPS | Jones 230kV | On-Line |
| GEN-2010-007IS | 172.50 | WAPA | Antelope Valley 345kV | On Suspension |
| GEN-2010-009 | 165.60 | SUNCMKEC | Buckner 345kV | On-Line |
| GEN-2010-011 | 29.70 | OKGE | Tatonga 345kV | On-Line |
| GEN-2010-014 | 358.80 | SPS | Hitchland 345kV | On Suspension |

| Request | Amount | Area | Requested/Proposed Point of Interconnection | Status or In-Service Date |
|----------------|--------|----------|---|---|
| GEN-2010-036 | 4.60 | WERE | 6th Street 115kV | On-Line |
| GEN-2010-040 | 300.00 | OKGE | Cimarron 345kV | On-Line |
| GEN-2010-041 | 10.50 | OPPD | S1399 161kV | On Schedule for 2015 |
| GEN-2010-045 | 197.80 | SUNCMKEC | Buckner 345kV | On Schedule for 2017 |
| GEN-2010-046 | 56.00 | SPS | TUCO Interchange 230kV | On Schedule for 2016 |
| GEN-2010-048 | 70.00 | MIDW | Tap Beach Station - Redline 115kV | FACILITY STUDY STAGE |
| GEN-2010-051 | 200.00 | NPPD | Tap Hoskins - Twin Church (Dixon County) 230kV | On Suspension |
| GEN-2010-055 | 4.50 | AEPW | Wekiwa 138kV | On-Line |
| GEN-2010-057 | 201.00 | MIDW | Rice County 230kV | On-Line |
| GEN-2011-008 | 600.00 | SUNCMKEC | Clark County 345kV | On Schedule for 2016 |
| GEN-2011-010 | 100.80 | OKGE | Minco 345kV | On-Line |
| GEN-2011-011 | 50.00 | KCPL | Iatan 345kV | On-Line |
| GEN-2011-014 | 201.00 | OKGE | Tap Hitchland - Woodward Dbl Ckt (GEN-2011-014 Tap) 345kV | On Schedule for 2016 |
| GEN-2011-016 | 200.10 | SUNCMKEC | Ironwood 345kV | On Schedule for 2017 |
| GEN-2011-018 | 73.60 | NPPD | Steele City 115kV | On-Line |
| GEN-2011-019 | 299.00 | OKGE | Woodward 345kV | On Suspension |
| GEN-2011-020 | 299.00 | OKGE | Woodward 345kV | On Suspension |
| GEN-2011-022 | 299.00 | SPS | Hitchland 345kV | On Schedule for 2016 (150MW) and 2017 (149MW) |
| GEN-2011-025 | 80.00 | SPS | Tap Floyd County - Crosby County 115kV | On Schedule for 2016 |
| GEN-2011-027 | 120.00 | NPPD | Tap Hoskins - Twin Church (Dixon County) 230kV | On Suspension |
| GEN-2011-037 | 7.00 | WFEC | Blue Canyon 5 138kV | On-Line |
| GEN-2011-040 | 111.00 | OKGE | Carter County 138kV | On-Line |
| GEN-2011-045 | 205.00 | SPS | Jones 230kV | On-Line |
| GEN-2011-046 | 27.00 | SPS | Lopez 115kV | On-Line |
| GEN-2011-048 | 175.00 | SPS | Mustang 230kV | On-Line |
| GEN-2011-049 | 250.70 | OKGE | Border 345kV | On Schedule for 2016 |
| GEN-2011-050 | 109.80 | AEPW | Santa Fe Tap 138kV | On Schedule for 2016 |
| GEN-2011-051 | 104.40 | OKGE | Tap Woodward - Tatonga 345kV (GEN-2011-051 Tap) | On Schedule for 2017 |
| GEN-2011-054 | 300.00 | OKGE | Cimarron 345kV | On-Line |
| GEN-2011-056 | 3.60 | NPPD | Jeffrey 115kV | On-Line |
| GEN-2011-056A | 3.60 | NPPD | John 1 115kV | On-Line |
| GEN-2011-056B | 4.50 | NPPD | John 2 115kV | On-Line |
| GEN-2011-057 | 150.40 | WERE | Creswell 138kV | On-Line |
| GEN-2012-001 | 61.20 | SPS | Cirrus Tap 230kV | On-Line |
| GEN-2012-004 | 41.40 | OKGE | Carter County 138kV | On-Line |
| GEN-2012-006IS | 125.01 | WAPA | Williston-Ch. Creek 230kV | On Schedule |
| GEN-2012-007 | 120.00 | SUNCMKEC | Rubart 115kV | On-Line |
| GEN-2012-009IS | 99.00 | WAPA | Tap Fort Randall - Lake Platte 230kV | On Suspension |
| GEN-2012-012IS | 75.00 | WAPA | Wolf Point-Circle 115kV | On Suspension |
| GEN-2012-014IS | 99.50 | WAPA | Groton 115kV | On Schedule |
| GEN-2012-020 | 478.00 | SPS | TUCO 230kV | On Schedule for 2016 |
| GEN-2012-021 | 4.80 | LES | Terry Bundy Generating Station 115kV | On-Line |
| GEN-2012-024 | 180.00 | SUNCMKEC | Clark County 345kV | On Schedule for 2016 |
| GEN-2012-027 | 136.00 | AEPW | Shidler 138kV | On Suspension |
| GEN-2012-028 | 74.80 | WFEC | Gotebo 69kV | On-Line |
| GEN-2012-032 | 300.00 | OKGE | Open Sky 345kV | On-Line |
| GEN-2012-033 | 98.80 | OKGE | Tap and Tie South 4th - Bunch Creek & Enid Tap - Fairmont (GEN-2012-033T) 138kV | On-Line |
| GEN-2012-034 | 7.00 | SPS | Mustang 230kV | On-Line |

| Request | Amount | Area | Requested/Proposed Point of Interconnection | Status or In-Service Date |
|----------------|--------|----------|--|--|
| GEN-2012-035 | 7.00 | SPS | Mustang 230kV | On-Line |
| GEN-2012-036 | 7.00 | SPS | Mustang 230kV | On-Line |
| GEN-2012-037 | 203.00 | SPS | TUCO 345kV | On-Line |
| GEN-2012-041 | 121.50 | OKGE | Ranch Road 345kV | On-Line |
| GEN-2013-001IS | 90.00 | WAPA | Summit-Watertown 115kV | On Suspension |
| GEN-2013-002 | 50.60 | LES | Tap Sheldon - Folsom & Pleasant Hill (GEN-2013-002 Tap) 115kV CKT 2 | On Schedule for 2016 |
| GEN-2013-007 | 100.30 | OKGE | Tap Prices Falls - Carter 138kV | On-Line |
| GEN-2013-008 | 1.20 | NPPD | Steele City 115kV | On-Line |
| GEN-2013-009IS | 19.50 | WAPA | Redfield NW 115kV | Commercial Operation |
| GEN-2013-010 | 99.00 | SUNCMKEC | Tap Spearville - Post Rock (North of GEN-2011-017 Tap) 345kV | IA Pending |
| GEN-2013-011 | 30.00 | AEPW | Turk 138kV | On-Line |
| GEN-2013-012 | 147.00 | OKGE | Redbud 345kV | On-Line |
| GEN-2013-014 | 25.50 | NPPD | Tap Pauline - Hildreth (Rosemont) 115kV | On Suspension |
| GEN-2013-016 | 203.00 | SPS | TUCO 345kV | On Schedule for 2017 |
| GEN-2013-019 | 73.60 | LES | Tap Sheldon - Folsom & Pleasant Hill (GEN-2013-002 Tap) 115kV CKT 2 | On Schedule for 2016 |
| GEN-2013-022 | 25.00 | SPS | Norton 115kV | On Schedule for 2016 |
| GEN-2013-027 | 150.00 | SPS | Tap Tolk - Yoakum 230kV | IA Pending |
| GEN-2013-028 | 559.50 | GRDA | Tap N Tulsa - GRDA 1 345kV | On Schedule for 2017 |
| GEN-2013-029 | 300.00 | OKGE | Renfrow 345kV | On Schedule for 2016 (150MW) and 2016 (150MW) |
| GEN-2013-030 | 300.00 | OKGE | Beaver County 345kV | On Schedule for 2016 (200MW) and 2017 (100MW) |
| GEN-2013-032 | 204.00 | NPPD | Antelope 115kV | On Schedule for 2017 |
| GEN-2013-033 | 28.00 | MIDW | Knoll 115kV | On Schedule for 2016 |
| GEN-2014-001 | 200.60 | WERE | Tap Wichita - Emporia Energy Center (GEN-2014-001 Tap) 345kV | On Suspension |
| GEN-2014-001IS | 103.70 | WAPA | Newell-Maurine 115kV | FACILITY STUDY STAGE |
| GEN-2014-002 | 10.50 | OKGE | Tatonga 345kV (GEN-2007-021 POI) | On Schedule for 2015 |
| GEN-2014-003 | 15.80 | OKGE | Tatonga 345kV (GEN-2007-044 POI) | On Schedule for 2015 |
| GEN-2014-003IS | 91.00 | WAPA | Culbertson 115kV | On Schedule |
| GEN-2014-004 | 4.00 | NPPD | Steele City 115kV (GEN-2011-018 POI) | On-Line |
| GEN-2014-004IS | 384.20 | WAPA | Charlie Creek 345kV | FACILITY STUDY STAGE |
| GEN-2014-005 | 5.70 | OKGE | Minco 345kV (GEN-2011-010 POI) | On-Line |
| GEN-2014-006IS | 125.00 | WAPA | Williston 115kV | On Schedule |
| GEN-2014-010IS | 150.00 | WAPA | Neset 115kV | On Schedule |
| GEN-2014-012 | 225.00 | SPS | Tap Hobbs Interchange - Andrews 230kV | On Schedule for 2018 |
| GEN-2014-013 | 73.50 | NPPD | Meadow Grove (GEN-2008-086N2 Sub) 230kV | On-Line |
| GEN-2014-014IS | 151.50 | WAPA | Belfield-Rhame 230kV | On Schedule |
| GEN-2014-020 | 100.00 | AEPW | Tuttle 138kV | On Schedule for 2017 |
| GEN-2014-021 | 300.00 | KCPL | Tap Nebraska City - Mullin Creek 345kV | On Schedule for 2016 |
| GEN-2014-025 | 2.40 | MIDW | Walnut Creek 69kV | On-Line |
| GEN-2014-028 | 35.00 | EMDE | Riverton 161kV | On Schedule for 2016 |
| GEN-2014-031 | 35.80 | NPPD | Meadow Grove 230kV | On Schedule for 2016 |
| GEN-2014-032 | 10.20 | NPPD | Meadow Grove 230kV | IA Pending |
| GEN-2014-033 | 70.00 | SPS | Chaves County 115kV | On Schedule for 2016 |
| GEN-2014-034 | 70.00 | SPS | Chaves County 115kV | On Schedule for 2016 |
| GEN-2014-035 | 30.00 | SPS | Chaves County 115kV | On Schedule for 2018 |
| GEN-2014-037 | 200.00 | SPS | Tap Hitchland - Beaver County Dbl Ckt (Optima) 345kV | DISIS STAGE |

| Request | Amount | Area | Requested/Proposed Point of Interconnection | Status or In-Service Date |
|--------------|--------|----------|---|---------------------------|
| GEN-2014-038 | 200.00 | SPS | Tap Hitchland - Potter County 345kV | DISIS STAGE |
| GEN-2014-039 | 73.40 | NPPD | Friend 115kV | On Schedule for 2017 |
| GEN-2014-040 | 320.40 | SPS | Castro 115kV | On Schedule for 2016 |
| GEN-2014-041 | 120.80 | SUNCMKEC | Arnold 115kV | On Schedule for 2017 |
| GEN-2014-046 | 125.40 | SPS | Chaves County 115kV | DISIS STAGE |
| GEN-2014-047 | 40.00 | SPS | Crossroads 345kV | IA Pending |
| GEN-2014-056 | 250.00 | OKGE | Minco 345kV | On Schedule for 2016 |
| GEN-2014-057 | 250.00 | AEPW | Tap Lawton - Sunnyside (Terry Road) 345kV | On Schedule for 2016 |
| GEN-2014-064 | 248.40 | OKGE | Otter 138kV | On Schedule for 2016 |
| GEN-2014-074 | 152.00 | SPS | Tap TUCO Interchange - Oklaunion (GEN-2014-074 Tap) 345kV | FACILITY STUDY STAGE |
| GEN-2015-001 | 200.00 | OKGE | Ranch Road 345kV | On Schedule for 2016 |
| GEN-2015-004 | 52.90 | OKGE | Border 345kV | FACILITY STUDY STAGE |
| GEN-2015-005 | 200.10 | KCPL | Tap Nebraska City - Sibley 345kV | FACILITY STUDY STAGE |
| GEN-2015-007 | 160.00 | NPPD | Hoskins 345kV | FACILITY STUDY STAGE |
| GEN-2015-013 | 120.00 | WFEC | Synder 138kV | FACILITY STUDY STAGE |
| GEN-2015-014 | 150.00 | SPS | Tap Cochran - Lehman 115kV | FACILITY STUDY STAGE |
| GEN-2015-015 | 154.60 | OKGE | Tap Medford Tap - Coyote 138kV | FACILITY STUDY STAGE |
| GEN-2015-016 | 200.00 | KCPL | Tap Marmaton - Centerville 161kV | FACILITY STUDY STAGE |
| GEN-2015-018 | 80.00 | SPS | Tap Curry County - Bailey 115kV | DISIS STAGE |
| GEN-2015-020 | 100.00 | SPS | Oasis 115kV | DISIS STAGE |
| GEN-2015-021 | 20.00 | SUNCMKEC | Johnson Corner 115kV | FACILITY STUDY STAGE |
| GEN-2015-022 | 112.00 | SPS | Swisher 115kV | FACILITY STUDY STAGE |
| GEN-2015-023 | 300.70 | NPPD | Holt County 345kV | FACILITY STUDY STAGE |
| GEN-2015-024 | 220.00 | WERE | Tap Thistle - Wichita 345kV Dbl CKT | FACILITY STUDY STAGE |
| GEN-2015-025 | 220.00 | WERE | Tap Thistle - Wichita 345kV Dbl CKT | FACILITY STUDY STAGE |
| GEN-2015-027 | 4.90 | SUNCMKEC | Crooked Creek 115kV | FACILITY STUDY STAGE |
| GEN-2015-028 | 3.00 | OKGE | Nardins 69kV | FACILITY STUDY STAGE |
| GEN-2015-029 | 161.00 | OKGE | Tatonga 345kV | FACILITY STUDY STAGE |
| GEN-2015-030 | 200.10 | OKGE | Sooner 345kV | IA Pending |
| GEN-2015-031 | 300.00 | SPS | Tap Amarillo South - Swisher 230kV | DISIS STAGE |
| GEN-2015-033 | 152.00 | SPS | Tap TUCO Interchange - Oklaunion (GEN-2014-074 Tap) 345kV | DISIS STAGE |
| GEN-2015-034 | 200.00 | OKGE | Ranch Road 345kV | DISIS STAGE |
| GEN-2015-036 | 303.60 | OKGE | Johnston County 345kV | DISIS STAGE |
| GEN-2015-038 | 303.60 | OKGE | Cimarron 345kV | DISIS STAGE |
| GEN-2015-039 | 50.00 | SPS | Tap Deaf Smith - Plant X 230kV | DISIS STAGE |
| GEN-2015-040 | 50.10 | SPS | Mustang 230kV | DISIS STAGE |
| GEN-2015-041 | 5.00 | SPS | TUCO Interchange 345kV | DISIS STAGE |
| GEN-2015-042 | 320.00 | NPPD | Tap Hoskins - Twin Church (Dixon County) 230kV | DISIS STAGE |
| GEN-2015-043 | 20.00 | WERE | Tap Thistle - Wichita 345kV Dbl CKT | DISIS STAGE |
| GEN-2015-044 | 20.00 | OKGE | Minco 345kV | DISIS STAGE |
| GEN-2015-045 | 20.00 | AEPW | Tap Lawton - Sunnyside (Terry Road) 345kV | DISIS STAGE |
| GEN-2015-046 | 300.00 | WAPA | Tande 345kV | DISIS STAGE |
| GEN-2015-047 | 300.00 | OKGE | Sooner 345kV | DISIS STAGE |
| GEN-2015-048 | 200.00 | OKGE | Cleo Corner 138kV | DISIS STAGE |
| GEN-2015-052 | 300.00 | WERE | Tap Open Sky - Rose Hill 345kV | DISIS STAGE |
| GEN-2015-053 | 50.00 | NPPD | Antelope 115kV | DISIS STAGE |
| GEN-2015-055 | 40.00 | WFEC | Erick 138kV | DISIS STAGE |
| GEN-2015-056 | 101.20 | SPS | Crossroads 345kV | DISIS STAGE |

| Request | Amount | Area | Requested/Proposed Point of Interconnection | Status or In-Service Date |
|---|--------|----------|---|---------------------------|
| GEN-2015-057 | 100.00 | OKGE | Minco 345kV | DISIS STAGE |
| GEN-2015-058 | 50.00 | SPS | Atoka 115kV | DISIS STAGE |
| GEN-2015-059 | 6.30 | OKGE | Minco 345kV | DISIS STAGE |
| GEN-2015-060 | 250.50 | OKGE | Woodward EHV 138kV | DISIS STAGE |
| GEN-2015-061 | 200.00 | SUNCMKEC | Tap Mingo - Setab 345kV | DISIS STAGE |
| GEN-2015-062 | 4.50 | OKGE | Tap and Tie South 4th - Bunch Creek & Enid Tap - Fairmont (GEN-2012-033T) 138kV | DISIS STAGE |
| GEN-2015-063 | 300.00 | OKGE | Tap Woodring - Mathewson 345kV | DISIS STAGE |
| GEN-2015-064 | 197.80 | SUNCMKEC | Mingo 115kV | DISIS STAGE |
| GEN-2015-065 | 202.40 | SUNCMKEC | Mingo 345kV | DISIS STAGE |
| GEN-2015-066 | 248.40 | OKGE | Tap Cleveland - Sooner 345kV | DISIS STAGE |
| GEN-2015-067 | 150.00 | OKGE | Sooner 138kV | DISIS STAGE |
| GEN-2015-068 | 300.00 | SPS | TUCO Interchange 345kV | DISIS STAGE |
| GEN-2015-069 | 300.00 | WERE | Union Ridge 230kV | DISIS STAGE |
| GEN-2015-071 | 200.00 | AEPW | Chisholm 345kV | DISIS STAGE |
| GEN-2015-072 | 20.90 | MIDW | South Hays 230kV | DISIS STAGE |
| GEN-2015-073 | 200.10 | WERE | Emporia Energy Center 345kV | DISIS STAGE |
| GEN-2015-074 | 174.00 | WERE | Tap Hoyt - Jeffrey Energy Center 345kV | DISIS STAGE |
| GEN-2015-075 | 51.48 | SPS | Carlisle 69kV | DISIS STAGE |
| GEN-2015-076 | 158.40 | NPPD | Belden 115kV | DISIS STAGE |
| GEN-2015-077 | 80.00 | SPS | Tap Terry - Clauene 115kV | DISIS STAGE |
| GEN-2015-078 | 50.10 | SPS | Mustang 115kV | DISIS STAGE |
| GEN-2015-079 | 129.20 | SPS | Tap Yoakum - Hobbs Interchange 230kV | DISIS STAGE |
| GEN-2015-080 | 129.20 | SPS | Tap Yoakum - Hobbs Interchange 230kV | DISIS STAGE |
| GEN-2015-081 | 180.00 | OKGE | Tap Woodward - Tatonga (GEN-2011-051 Tap) 345kV | DISIS STAGE |
| GEN-2015-082 | 200.00 | OKGE | Tap Hitchland - Woodward Dbl Ckt (GEN-2011-014 Tap) 345kV | DISIS STAGE |
| GEN-2015-083 | 125.00 | WERE | Belle Plain 138kV | DISIS STAGE |
| GEN-2015-084 | 51.30 | AEPW | Hollis 138kV | DISIS STAGE |
| GEN-2015-085 | 122.40 | AEPW | Tap Lake Pauline - Russell 138kV | DISIS STAGE |
| GEN-2015-087 | 76.00 | NPPD | Tap Fairbury - Hebron 115kV | DISIS STAGE |
| GEN-2015-088 | 300.00 | NPPD | Tap Moore - Pauline 345kV | DISIS STAGE |
| GEN-2015-090 | 220.00 | WERE | Tap Thistle - Wichita 345kV Dbl CKT | DISIS STAGE |
| GEN-2015-091 | 101.20 | WAPA | Daglum 230kV | DISIS STAGE |
| GEN-2015-092 | 250.00 | AEPW | Tap Lawton - Sunnyside (Terry Road) 345kV | DISIS STAGE |
| GEN-2015-093 | 250.00 | OKGE | Tap Lawton East Side - Gracemont 345kV | DISIS STAGE |
| GEN-2015-095 | 172.00 | WFEC | Tap Rose Valley - Mooreland 138kV | DISIS STAGE |
| GEN-2015-096 | 150.00 | WAPA | Tap Belfied - Rhame 230kV | DISIS STAGE |
| GEN-2015-097 | 100.00 | WAPA | Groton 115kV | DISIS STAGE |
| GEN-2015-098 | 100.00 | WAPA | Mingusville 230kV | DISIS STAGE |
| Gray County Wind (Montezuma) | 110.00 | SUNCMKEC | Gray County Tap 115kV | On-Line |
| J003 | 20.00 | MDU | Baker 115kV | MISO Queued Request |
| J249 | 180.00 | MDU | MDU Tatanka 230kV | MISO Queued Request |
| J262 | 100.00 | OTP | Jamestown 345 | MISO Queued Request |
| J263 | 100.00 | OTP | Jamestown 345 | MISO Queued Request |
| J316 | 150.00 | MDU | MDU 230 kV Tatanka-Ellendale line | MISO Queued Request |
| Llano Estacado (White Deer) | 80.00 | SPS | Llano Wind 115kV | On-Line |
| NPPD Distributed (Broken Bow) | 8.30 | NPPD | Broken Bow 115kV | On-Line |
| NPPD Distributed (Buffalo County Solar) | 10.00 | NPPD | Kearney Northeast | On-Line |
| NPPD Distributed (Burt County Wind) | 12.00 | NPPD | Tekamah & Oakland 115kV | On-Line |

| Request | Amount | Area | Requested/Proposed Point of Interconnection | Status or In-Service Date |
|---|-----------------|------|---|---------------------------|
| NPPD Distributed (Burwell) | 3.00 | NPPD | Ord 115kV | On-Line |
| NPPD Distributed (Columbus Hydro) | 45.00 | NPPD | Columbus 115kV | On-Line |
| NPPD Distributed (North Platte - Lexington) | 54.00 | NPPD | Multiple: Jeffrey 115kV, John_1 115kV, John_2 115kV | On-Line |
| NPPD Distributed (Ord) | 11.90 | NPPD | Ord 115kV | On-Line |
| NPPD Distributed (Stuart) | 2.10 | NPPD | Ainsworth 115kV | On-Line |
| SPS Distributed (Dumas 19th St) | 20.00 | SPS | Dumas 19th Street 115kV | On-Line |
| SPS Distributed (Etter) | 20.00 | SPS | Etter 115kV | On-Line |
| SPS Distributed (Hopi) | 10.00 | SPS | Hopi 115kV | On-Line |
| SPS Distributed (Jal) | 10.00 | SPS | S Jal 115kV | On-Line |
| SPS Distributed (Lea Road) | 10.00 | SPS | Lea Road 115kV | On-Line |
| SPS Distributed (Monument) | 10.00 | SPS | Monument 115kV | On-Line |
| SPS Distributed (Moore E) | 25.00 | SPS | Moore East 115kV | On-Line |
| SPS Distributed (Ocotillo) | 10.00 | SPS | S_Jal 115kV | On-Line |
| SPS Distributed (Sherman) | 20.00 | SPS | Sherman 115kV | On-Line |
| SPS Distributed (Spearman) | 10.00 | SPS | Spearman 69kV | On-Line |
| SPS Distributed (TC-Texas County) | 20.00 | SPS | Texas County 115kV | On-Line |
| SPS Distributed (Yuma) | 2.57 | SPS | SP-Yuma 69kV | On-Line |
| Total: | 43,064.6 | | | |

C: Study Groupings

See next page.

C. Study Groups

| GROUP 1: WOODWARD AREA | | | |
|-------------------------------|-----------------|-------------|---|
| Request | Capacity | Area | Proposed Point of Interconnection |
| GEN-2001-014 | 96.00 | WFEC | Ft Supply 138kV |
| GEN-2001-037 | 100.00 | OKGE | FPL Moreland Tap 138kV |
| GEN-2005-008 | 120.00 | OKGE | Woodward 138kV |
| GEN-2006-024S | 19.80 | WFEC | Buffalo Bear Tap 69kV |
| GEN-2006-046 | 131.00 | OKGE | Dewey 138kV |
| GEN-2007-021 | 201.00 | OKGE | Tatonga 345kV |
| GEN-2007-043 | 200.00 | OKGE | Minco 345kV |
| GEN-2007-044 | 300.00 | OKGE | Tatonga 345kV |
| GEN-2007-050 | 170.00 | OKGE | Woodward EHV 138kV |
| GEN-2007-062 | 765.00 | OKGE | Woodward EHV 345kV |
| GEN-2008-003 | 101.00 | OKGE | Woodward EHV 138kV |
| GEN-2008-044 | 197.80 | OKGE | Tatonga 345kV |
| GEN-2010-011 | 29.70 | OKGE | Tatonga 345kV |
| GEN-2010-040 | 300.00 | OKGE | Cimarron 345kV |
| GEN-2011-010 | 100.80 | OKGE | Minco 345kV |
| GEN-2011-019 | 299.00 | OKGE | Woodward 345kV |
| GEN-2011-020 | 299.00 | OKGE | Woodward 345kV |
| GEN-2011-051 | 104.40 | OKGE | Tap Woodward - Tatonga 345kV (GEN-2011-051 Tap) |
| GEN-2011-054 | 300.00 | OKGE | Cimarron 345kV |
| GEN-2014-002 | 10.50 | OKGE | Tatonga 345kV (GEN-2007-021 POI) |
| GEN-2014-003 | 15.80 | OKGE | Tatonga 345kV (GEN-2007-044 POI) |
| GEN-2014-005 | 5.70 | OKGE | Minco 345kV (GEN-2011-010 POI) |
| GEN-2014-020 | 100.00 | AEPW | Tuttle 138kV |
| GEN-2014-056 | 250.00 | OKGE | Minco 345kV |
| GEN-2015-029 | 161.00 | OKGE | Tatonga 345kV |
| GEN-2015-038 | 303.60 | OKGE | Cimarron 345kV |
| GEN-2015-044 | 20.00 | OKGE | Minco 345kV |
| GEN-2015-048 | 200.00 | OKGE | Cleo Corner 138kV |
| GEN-2015-057 | 100.00 | OKGE | Minco 345kV |
| GEN-2015-059 | 6.30 | OKGE | Minco 345kV |
| GEN-2015-060 | 250.50 | OKGE | Woodward EHV 138kV |
| GEN-2015-081 | 180.00 | OKGE | Tap Woodward - Tatonga (GEN-2011-051 Tap) 345kV |
| GEN-2015-093 | 250.00 | OKGE | Tap Lawton East Side - Gracemont 345kV |
| GEN-2015-095 | 172.00 | WFEC | Tap Rose Valley - Mooreland 138kV |
| PRIOR QUEUED SUBTOTAL | 5,859.90 | | |
| AREA TOTAL | 5,859.90 | | |

| GROUP 2: HITCHLAND AREA | | | |
|-----------------------------------|-----------------|-------------|---|
| Request | Capacity | Area | Proposed Point of Interconnection |
| ASGI-2011-002 | 20.00 | SPS | Herring 115kV |
| ASGI-2013-001 | 11.50 | SPS | PanTex South 115kV |
| GEN-2002-008 | 240.00 | SPS | Hitchland 345kV |
| GEN-2002-009 | 80.00 | SPS | Hansford 115kV |
| GEN-2002-022 | 240.00 | SPS | Bushland 230kV |
| GEN-2003-020 | 160.00 | SPS | Martin 115kV |
| GEN-2006-020S | 18.90 | SPS | DWS Frisco 115kV |
| GEN-2006-044 | 370.00 | SPS | Hitchland 345kV |
| GEN-2007-046 | 200.00 | SPS | Hitchland 115kV |
| GEN-2008-047 | 300.00 | OKGE | Beaver County 345kV |
| GEN-2008-051 | 322.00 | SPS | Potter County 345kV |
| GEN-2010-001 | 300.00 | OKGE | Beaver County 345kV |
| GEN-2010-014 | 358.80 | SPS | Hitchland 345kV |
| GEN-2011-014 | 201.00 | OKGE | Tap Hitchland - Woodward Dbl Ckt (GEN-2011-014 Tap) 345kV |
| GEN-2011-022 | 299.00 | SPS | Hitchland 345kV |
| GEN-2013-030 | 300.00 | OKGE | Beaver County 345kV |
| GEN-2014-037 | 200.00 | SPS | Tap Hitchland - Beaver County Dbl Ckt (Optima) 345kV |
| GEN-2014-038 | 200.00 | SPS | Tap Hitchland - Potter County 345kV |
| GEN-2015-082 | 200.00 | OKGE | Tap Hitchland - Woodward Dbl Ckt (GEN-2011-014 Tap) 345kV |
| Llano Estacado (White Deer) | 80.00 | SPS | Llano Wind 115kV |
| SPS Distributed (Dumas 19th St) | 20.00 | SPS | Dumas 19th Street 115kV |
| SPS Distributed (Etter) | 20.00 | SPS | Etter 115kV |
| SPS Distributed (Moore E) | 25.00 | SPS | Moore East 115kV |
| SPS Distributed (Sherman) | 20.00 | SPS | Sherman 115kV |
| SPS Distributed (Spearman) | 10.00 | SPS | Spearman 69kV |
| SPS Distributed (TC-Texas County) | 20.00 | SPS | Texas County 115kV |
| PRIOR QUEUED SUBTOTAL | 4,216.20 | | |
| AREA TOTAL | 4,216.20 | | |

| GROUP 3: SPEARVILLE AREA | | | |
|---------------------------------|-----------------|-------------|--|
| Request | Capacity | Area | Proposed Point of Interconnection |
| ASGI-2012-006 | 22.50 | SUNCMKEC | Tap Hugoton - Rolla 69kV |
| ASGI-2015-001 | 6.13 | SUNCMKEC | Ninnescah 115kV |
| GEN-2001-039A | 105.00 | SUNCMKEC | Shooting Star Tap 115kV |
| GEN-2002-025A | 150.00 | SUNCMKEC | Spearville 230kV |
| GEN-2004-014 | 154.50 | SUNCMKEC | Spearville 230kV |
| GEN-2005-012 | 250.00 | SUNCMKEC | Ironwood 345kV |
| GEN-2006-021 | 101.00 | SUNCMKEC | Flat Ridge Tap 138kV |
| GEN-2007-040 | 200.00 | SUNCMKEC | Buckner 345kV |
| GEN-2008-018 | 250.00 | SPS | Finney 345kV |
| GEN-2008-079 | 99.20 | SUNCMKEC | Crooked Creek 115kV |
| GEN-2008-124 | 200.10 | SUNCMKEC | Ironwood 345kV |
| GEN-2010-009 | 165.60 | SUNCMKEC | Buckner 345kV |
| GEN-2010-045 | 197.80 | SUNCMKEC | Buckner 345kV |
| GEN-2011-008 | 600.00 | SUNCMKEC | Clark County 345kV |
| GEN-2011-016 | 200.10 | SUNCMKEC | Ironwood 345kV |
| GEN-2012-007 | 120.00 | SUNCMKEC | Rubart 115kV |
| GEN-2012-024 | 180.00 | SUNCMKEC | Clark County 345kV |
| GEN-2013-010 | 99.00 | SUNCMKEC | Tap Spearville - Post Rock (North of GEN-2011-017 Tap) 345kV |
| GEN-2015-021 | 20.00 | SUNCMKEC | Johnson Corner 115kV |
| GEN-2015-027 | 4.90 | SUNCMKEC | Crooked Creek 115kV |
| Gray County Wind (Montezuma) | 110.00 | SUNCMKEC | Gray County Tap 115kV |
| PRIOR QUEUED SUBTOTAL | 3,235.83 | | |
| AREA TOTAL | 3,235.83 | | |

| GROUP 4: NORTHWEST KANSAS AREA | | | |
|---------------------------------------|-----------------|-------------|--|
| Request | Capacity | Area | Proposed Point of Interconnection |
| ASGI-2013-004 | 36.60 | SUNCMKEC | Morris 115kV |
| GEN-2001-039M | 100.00 | SUNCMKEC | Central Plains Tap 115kV |
| GEN-2003-006A | 200.00 | SUNCMKEC | Elm Creek 230kV |
| GEN-2003-019 | 250.00 | MIDW | Smoky Hills Tap 230kV |
| GEN-2006-031 | 75.00 | MIDW | Knoll 115kV |
| GEN-2008-092 | 200.60 | MIDW | Post Rock 230kV |
| GEN-2009-008 | 199.50 | MIDW | South Hays 230kV |
| GEN-2009-020 | 48.30 | MIDW | Walnut Creek 69kV |
| GEN-2010-048 | 70.00 | MIDW | Tap Beach Station - Redline 115kV |
| GEN-2010-057 | 201.00 | MIDW | Rice County 230kV |
| GEN-2013-033 | 28.00 | MIDW | Knoll 115kV |
| GEN-2014-025 | 2.40 | MIDW | Walnut Creek 69kV |
| GEN-2014-041 | 120.80 | SUNCMKEC | Arnold 115kV |
| GEN-2015-061 | 200.00 | SUNCMKEC | Tap Mingo - Setab 345kV |
| GEN-2015-064 | 197.80 | SUNCMKEC | Mingo 115kV |
| GEN-2015-065 | 202.40 | SUNCMKEC | Mingo 345kV |
| GEN-2015-072 | 20.90 | MIDW | South Hays 230kV |
| PRIOR QUEUED SUBTOTAL | 2,153.30 | | |
| AREA TOTAL | 2,153.30 | | |

GROUP 6: SOUTH TEXAS PANHANDLE/NEW MEXICO AREA

| Request | Capacity | Area | Proposed Point of Interconnection |
|---------------|----------|------|---|
| ASGI-2010-010 | 42.20 | SPS | Lovington 115kV |
| ASGI-2010-020 | 30.00 | SPS | Tap LE-Tatum - LE-Crossroads 69kV |
| ASGI-2010-021 | 15.00 | SPS | Tap LE-Saunders Tap - LE-Anderson 69kV |
| ASGI-2011-001 | 27.30 | SPS | Lovington 115kV |
| ASGI-2011-003 | 10.00 | SPS | Hendricks 69kV |
| ASGI-2011-004 | 20.00 | SPS | Pleasant Hill 69kV |
| ASGI-2012-002 | 18.15 | SPS | FE-Clovis Interchange 115kV |
| ASGI-2013-002 | 18.40 | SPS | FE Tucumcari 115kV |
| ASGI-2013-003 | 18.40 | SPS | FE Clovis 115kV |
| ASGI-2013-005 | 1.65 | SPS | FE Clovis 115kV |
| ASGI-2013-006 | 2.00 | SPS | SP-Erskine 115kV |
| ASGI-2014-001 | 2.50 | SPS | SP-Erskine 115kV |
| ASGI-2014-002 | 49.60 | SPS | Tap Tucumcari - Santa Rosa 115kV |
| ASGI-2014-005 | 10.00 | SPS | Strata 69kV |
| ASGI-2014-008 | 10.00 | SPS | South Loving 69kV |
| ASGI-2014-009 | 10.00 | SPS | Wood Draw 115kV |
| ASGI-2014-010 | 10.00 | SPS | Ochoa 115kV |
| ASGI-2014-012 | 10.00 | SPS | Cooper Ranch 115kV |
| ASGI-2015-002 | 2.00 | SPS | SP-Yuma 69kV |
| GEN-2001-033 | 180.00 | SPS | San Juan Tap 230kV |
| GEN-2001-036 | 80.00 | SPS | Norton 115kV |
| GEN-2006-018 | 170.00 | SPS | TUCO Interchange 230kV |
| GEN-2006-026 | 502.00 | SPS | Hobbs 230kV & Hobbs 115kV |
| GEN-2008-022 | 300.00 | SPS | Crossroads 345kV |
| GEN-2010-006 | 205.00 | SPS | Jones 230kV |
| GEN-2010-046 | 56.00 | SPS | TUCO Interchange 230kV |
| GEN-2011-025 | 80.00 | SPS | Tap Floyd County - Crosby County 115kV |
| GEN-2011-045 | 205.00 | SPS | Jones 230kV |
| GEN-2011-046 | 27.00 | SPS | Lopez 115kV |
| GEN-2011-048 | 175.00 | SPS | Mustang 230kV |
| GEN-2012-001 | 61.20 | SPS | Cirrus Tap 230kV |
| GEN-2012-020 | 478.00 | SPS | TUCO 230kV |
| GEN-2012-034 | 7.00 | SPS | Mustang 230kV |
| GEN-2012-035 | 7.00 | SPS | Mustang 230kV |
| GEN-2012-036 | 7.00 | SPS | Mustang 230kV |
| GEN-2012-037 | 203.00 | SPS | TUCO 345kV |
| GEN-2013-016 | 203.00 | SPS | TUCO 345kV |
| GEN-2013-022 | 25.00 | SPS | Norton 115kV |
| GEN-2013-027 | 150.00 | SPS | Tap Tolk - Yoakum 230kV |
| GEN-2014-012 | 225.00 | SPS | Tap Hobbs Interchange - Andrews 230kV |
| GEN-2014-033 | 70.00 | SPS | Chaves County 115kV |
| GEN-2014-034 | 70.00 | SPS | Chaves County 115kV |
| GEN-2014-035 | 30.00 | SPS | Chaves County 115kV |
| GEN-2014-040 | 320.40 | SPS | Castro 115kV |
| GEN-2014-046 | 125.40 | SPS | Chaves County 115kV |
| GEN-2014-047 | 40.00 | SPS | Crossroads 345kV |
| GEN-2014-074 | 152.00 | SPS | Tap TUCO Interchange - Oklaunion (GEN-2014-074 Tap) 345kV |
| GEN-2015-014 | 150.00 | SPS | Tap Cochran - Lehman 115kV |
| GEN-2015-018 | 80.00 | SPS | Tap Curry County - Bailey 115kV |

| | | | |
|---------------------------------|-----------------|-----|--|
| GEN-2015-020 | 100.00 | SPS | Oasis 115kV |
| GEN-2015-022 | 112.00 | SPS | Swisher 115kV |
| GEN-2015-031 | 300.00 | SPS | Tap Amarillo South - Swisher 230kV |
| GEN-2015-033 | 152.00 | SPS | Tap TUCO Interchange - Oklaunion (GEN-2014-074 Tap) 345kV |
| GEN-2015-039 | 50.00 | SPS | Tap Deaf Smith - Plant X 230kV |
| GEN-2015-040 | 50.10 | SPS | Mustang 230kV |
| GEN-2015-041 | 5.00 | SPS | TUCO Interchange 345kV |
| GEN-2015-056 | 101.20 | SPS | Crossroads 345kV |
| GEN-2015-058 | 50.00 | SPS | Atoka 115kV |
| GEN-2015-068 | 300.00 | SPS | TUCO Interchange 345kV |
| GEN-2015-075 | 51.48 | SPS | Carlisle 69kV |
| GEN-2015-077 | 80.00 | SPS | Tap Terry - Clauene 115kV |
| GEN-2015-078 | 50.10 | SPS | Mustang 115kV |
| GEN-2015-079 | 129.20 | SPS | Tap Yoakum - Hobbs Interchange 230kV |
| GEN-2015-080 | 129.20 | SPS | Tap Yoakum - Hobbs Interchange 230kV |
| SPS Distributed (Hopi) | 10.00 | SPS | Hopi 115kV |
| SPS Distributed (Jal) | 10.00 | SPS | S Jal 115kV |
| SPS Distributed (Lea Road) | 10.00 | SPS | Lea Road 115kV |
| SPS Distributed (Monument) | 10.00 | SPS | Monument 115kV |
| SPS Distributed (Ocotillo) | 10.00 | SPS | S_Jal 115kV |
| SPS Distributed (Yuma) | 2.57 | SPS | SP-Yuma 69kV |
| PRIOR QUEUED SUBTOTAL | 6,404.05 | | |
| GEN-2015-099 | 70.40 | SPS | Hobbs 115kV/Maddox 115kV |
| GEN-2015-101 | 240.00 | SPS | Tap Plant X - Deaf Smith 230kV/Tap Potter County - Newhart 230kV |
| CURRENT CLUSTER SUBTOTAL | 310.40 | | |
| AREA TOTAL | 6,714.45 | | |

| GROUP 7: SOUTHWEST OKLAHOMA AREA | | | |
|---|-----------------|-------------|--|
| Request | Capacity | Area | Proposed Point of Interconnection |
| GEN-2001-026 | 74.30 | WFEC | Washita 138kV |
| GEN-2002-005 | 120.00 | WFEC | Red Hills Tap 138kV |
| GEN-2003-004 | 100.00 | WFEC | Washita 138kV |
| GEN-2003-005 | 100.00 | WFEC | Anadarko - Paradise (Blue Canyon) 138kV |
| GEN-2003-022 | 120.00 | AEPW | Weatherford 138kV |
| GEN-2004-020 | 27.00 | AEPW | Weatherford 138kV |
| GEN-2004-023 | 20.60 | WFEC | Washita 138kV |
| GEN-2005-003 | 30.60 | WFEC | Washita 138kV |
| GEN-2006-002 | 101.00 | AEPW | Sweetwater 230kV |
| GEN-2006-035 | 225.00 | AEPW | Sweetwater 230kV |
| GEN-2006-043 | 99.00 | AEPW | Sweetwater 230kV |
| GEN-2007-052 | 150.00 | WFEC | Anadarko 138kV |
| GEN-2008-023 | 150.00 | AEPW | Hobart Junction 138kV |
| GEN-2008-037 | 101.00 | WFEC | Slick Hills 138kV |
| GEN-2011-037 | 7.00 | WFEC | Blue Canyon 5 138kV |
| GEN-2011-049 | 250.70 | OKGE | Border 345kV |
| GEN-2012-028 | 74.80 | WFEC | Gotebo 69kV |
| GEN-2015-004 | 52.90 | OKGE | Border 345kV |
| GEN-2015-013 | 120.00 | WFEC | Synder 138kV |
| GEN-2015-055 | 40.00 | WFEC | Erick 138kV |
| GEN-2015-071 | 200.00 | AEPW | Chisholm 345kV |
| GEN-2015-084 | 51.30 | AEPW | Hollis 138kV |
| GEN-2015-085 | 122.40 | AEPW | Tap Lake Pauline - Russell 138kV |
| PRIOR QUEUED SUBTOTAL | 2,337.60 | | |
| AREA TOTAL | 2,337.60 | | |

| GROUP 8: NORTH OKLAHOMA/SOUTH CENTRAL KANSAS AREA | | | |
|--|-----------------|-------------|---|
| Request | Capacity | Area | Proposed Point of Interconnection |
| ASGI-2010-006 | 150.00 | AECI | Remington 138kV |
| ASGI-2014-014 | 56.40 | GRDA | Ferguson 69kV |
| ASGI-2015-004 | 56.36 | GRDA | Coffeyville City 69kV |
| GEN-2002-004 | 200.00 | WERE | Latham 345kV |
| GEN-2005-013 | 201.00 | WERE | Caney River 345kV |
| GEN-2007-025 | 300.00 | WERE | Viola 345kV |
| GEN-2008-013 | 300.00 | OKGE | Hunter 345kV |
| GEN-2008-021 | 42.00 | WERE | Wolf Creek 345kV |
| GEN-2008-098 | 100.80 | WERE | Waverly 345kV |
| GEN-2009-025 | 59.80 | OKGE | Nardins 69kV |
| GEN-2010-003 | 100.80 | WERE | Waverly 345kV |
| GEN-2010-005 | 299.20 | WERE | Viola 345kV |
| GEN-2010-055 | 4.50 | AEPW | Wekiwa 138kV |
| GEN-2011-057 | 150.40 | WERE | Creswell 138kV |
| GEN-2012-027 | 136.00 | AEPW | Shidler 138kV |
| GEN-2012-032 | 300.00 | OKGE | Open Sky 345kV |
| GEN-2012-033 | 98.80 | OKGE | Tap and Tie South 4th - Bunch Creek & Enid Tap - Fairmont (GEN-2012-033T) 138kV |
| GEN-2012-041 | 121.50 | OKGE | Ranch Road 345kV |
| GEN-2013-012 | 147.00 | OKGE | Redbud 345kV |
| GEN-2013-028 | 559.50 | GRDA | Tap N Tulsa - GRDA 1 345kV |
| GEN-2013-029 | 300.00 | OKGE | Renfrow 345kV |
| GEN-2014-001 | 200.60 | WERE | Tap Wichita - Emporia Energy Center (GEN-2014-001 Tap) 345kV |

| | | | |
|------------------------------|-----------------|------|---|
| GEN-2014-028 | 35.00 | EMDE | Riverton 161kV |
| GEN-2014-064 | 248.40 | OKGE | Otter 138kV |
| GEN-2015-001 | 200.00 | OKGE | Ranch Road 345kV |
| GEN-2015-015 | 154.60 | OKGE | Tap Medford Tap - Coyote 138kV |
| GEN-2015-016 | 200.00 | KCPL | Tap Marmaton - Centerville 161kV |
| GEN-2015-024 | 220.00 | WERE | Tap Thistle - Wichita 345kV Dbl CKT |
| GEN-2015-025 | 220.00 | WERE | Tap Thistle - Wichita 345kV Dbl CKT |
| GEN-2015-028 | 3.00 | OKGE | Nardins 69kV |
| GEN-2015-030 | 200.10 | OKGE | Sooner 345kV |
| GEN-2015-034 | 200.00 | OKGE | Ranch Road 345kV |
| GEN-2015-043 | 20.00 | WERE | Tap Thistle - Wichita 345kV Dbl CKT |
| GEN-2015-047 | 300.00 | OKGE | Sooner 345kV |
| GEN-2015-052 | 300.00 | WERE | Tap Open Sky - Rose Hill 345kV |
| GEN-2015-062 | 4.50 | OKGE | Tap and Tie South 4th - Bunch Creek & Enid Tap - Fairmont (GEN-2012-033T) 138kV |
| GEN-2015-063 | 300.00 | OKGE | Tap Woodring - Mathewson 345kV |
| GEN-2015-066 | 248.40 | OKGE | Tap Cleveland - Sooner 345kV |
| GEN-2015-067 | 150.00 | OKGE | Sooner 138kV |
| GEN-2015-069 | 300.00 | WERE | Union Ridge 230kV |
| GEN-2015-073 | 200.10 | WERE | Emporia Energy Center 345kV |
| GEN-2015-083 | 125.00 | WERE | Belle Plain 138kV |
| GEN-2015-090 | 220.00 | WERE | Tap Thistle - Wichita 345kV Dbl CKT |
| PRIOR QUEUED SUBTOTAL | 7,733.76 | | |
| AREA TOTAL | 7,733.76 | | |

GROUP 9: NEBRASKA AREA

| Request | Capacity | Area | Proposed Point of Interconnection |
|------------------|----------|------|---|
| GEN-2002-023N | 0.80 | NPPD | Harmony 115kV |
| GEN-2003-021N | 75.00 | NPPD | Ainsworth Wind Tap 115kV |
| GEN-2004-023N | 75.00 | NPPD | Columbus Co 115kV |
| GEN-2006-020N | 42.00 | NPPD | Bloomfield 115kV |
| GEN-2006-037N1 | 75.00 | NPPD | Broken Bow 115kV |
| GEN-2006-038N005 | 80.00 | NPPD | Broken Bow 115kV |
| GEN-2006-038N019 | 80.00 | NPPD | Petersburg North 115kV |
| GEN-2006-044N | 40.50 | NPPD | North Petersburg 115kV |
| GEN-2007-011N08 | 81.00 | NPPD | Bloomfield 115kV |
| GEN-2007-017IS | 166.00 | WAPA | Ft Thompson-Grand Island 345kV |
| GEN-2007-018IS | 234.00 | WAPA | Ft Thompson-Grand Island 345kV |
| GEN-2008-086N02 | 201.00 | NPPD | Meadow Grove 230kV |
| GEN-2008-119O | 60.00 | OPPD | S1399 161kV |
| GEN-2009-040 | 73.80 | WERE | Marshall 115kV |
| GEN-2010-041 | 10.50 | OPPD | S1399 161kV |
| GEN-2010-051 | 200.00 | NPPD | Tap Hoskins - Twin Church (Dixon County) 230kV |
| GEN-2011-018 | 73.60 | NPPD | Steele City 115kV |
| GEN-2011-027 | 120.00 | NPPD | Tap Hoskins - Twin Church (Dixon County) 230kV |
| GEN-2011-056 | 3.60 | NPPD | Jeffrey 115kV |
| GEN-2011-056A | 3.60 | NPPD | John 1 115kV |
| GEN-2011-056B | 4.50 | NPPD | John 2 115kV |
| GEN-2012-021 | 4.80 | LES | Terry Bundy Generating Station 115kV |
| GEN-2013-002 | 50.60 | LES | Tap Sheldon - Folsom & Pleasant Hill (GEN-2013-002 Tap) 115kV CKT 2 |
| GEN-2013-008 | 1.20 | NPPD | Steele City 115kV |
| GEN-2013-014 | 25.50 | NPPD | Tap Pauline - Hildreth (Rosemont) 115kV |
| GEN-2013-019 | 73.60 | LES | Tap Sheldon - Folsom & Pleasant Hill (GEN-2013-002 Tap) 115kV CKT 2 |
| GEN-2013-032 | 204.00 | NPPD | Antelope 115kV |

| | | | |
|---|-----------------|------|---|
| GEN-2014-004 | 4.00 | NPPD | Steele City 115kV (GEN-2011-018 POI) |
| GEN-2014-013 | 73.50 | NPPD | Meadow Grove (GEN-2008-086N2 Sub) 230kV |
| GEN-2014-031 | 35.80 | NPPD | Meadow Grove 230kV |
| GEN-2014-032 | 10.20 | NPPD | Meadow Grove 230kV |
| GEN-2014-039 | 73.40 | NPPD | Friend 115kV |
| GEN-2015-007 | 160.00 | NPPD | Hoskins 345kV |
| GEN-2015-023 | 300.70 | NPPD | Holt County 345kV |
| GEN-2015-042 | 320.00 | NPPD | Tap Hoskins - Twin Church (Dixon County) 230kV |
| GEN-2015-053 | 50.00 | NPPD | Antelope 115kV |
| GEN-2015-076 | 158.40 | NPPD | Belden 115kV |
| GEN-2015-087 | 76.00 | NPPD | Tap Fairbury - Hebron 115kV |
| GEN-2015-088 | 300.00 | NPPD | Tap Moore - Pauline 345kV |
| NPPD Distributed (Broken Bow) | 8.30 | NPPD | Broken Bow 115kV |
| NPPD Distributed (Buffalo County Solar) | 10.00 | NPPD | Kearney Northeast |
| NPPD Distributed (Burt County Wind) | 12.00 | NPPD | Tekamah & Oakland 115kV |
| NPPD Distributed (Burwell) | 3.00 | NPPD | Ord 115kV |
| NPPD Distributed (Columbus Hydro) | 45.00 | NPPD | Columbus 115kV |
| NPPD Distributed (North Platte - Lexington) | 54.00 | NPPD | Multiple: Jeffrey 115kV, John_1 115kV, John_2 115kV |
| NPPD Distributed (Ord) | 11.90 | NPPD | Ord 115kV |
| NPPD Distributed (Stuart) | 2.10 | NPPD | Ainsworth 115kV |
| PRIOR QUEUED SUBTOTAL | 3,767.90 | | |
| GEN-2015-100 | 120.00 | NPPD | Fairbury 115kV |
| CURRENT CLUSTER SUBTOTAL | 120.00 | | |
| AREA TOTAL | 3,887.90 | | |

GROUP 10: SOUTHEAST OKLAHOMA/NORTHEAST TEXAS AREA

| Request | Capacity | Area | Proposed Point of Interconnection |
|-------------------|-------------|------|-----------------------------------|
| AREA TOTAL | 0.00 | | |

GROUP 12: NORTHWEST ARKANSAS AREA

| Request | Capacity | Area | Proposed Point of Interconnection |
|------------------------------|--------------|------|-----------------------------------|
| GEN-2013-011 | 30.00 | AEPW | Turk 138kV |
| PRIOR QUEUED SUBTOTAL | 30.00 | | |
| AREA TOTAL | 30.00 | | |

GROUP 13: NORTHWEST MISSOURI AREA

| Request | Capacity | Area | Proposed Point of Interconnection |
|------------------------------|---------------|------|--|
| GEN-2008-129 | 80.00 | KCPL | Pleasant Hill 161kV |
| GEN-2010-036 | 4.60 | WERE | 6th Street 115kV |
| GEN-2011-011 | 50.00 | KCPL | Iatan 345kV |
| GEN-2014-021 | 300.00 | KCPL | Tap Nebraska City - Mullin Creek 345kV |
| GEN-2015-005 | 200.10 | KCPL | Tap Nebraska City - Sibley 345kV |
| GEN-2015-074 | 174.00 | WERE | Tap Hoyt - Jeffrey Energy Center 345kV |
| PRIOR QUEUED SUBTOTAL | 808.70 | | |
| AREA TOTAL | 808.70 | | |

GROUP 14: SOUTH CENTRAL OKLAHOMA AREA

| Request | Capacity | Area | Proposed Point of Interconnection |
|------------------------------|-----------------|------|---|
| ASGI-2015-006 | 9.00 | SWPA | Tupelo 138kV |
| GEN-2011-040 | 111.00 | OKGE | Carter County 138kV |
| GEN-2011-050 | 109.80 | AEPW | Santa Fe Tap 138kV |
| GEN-2012-004 | 41.40 | OKGE | Carter County 138kV |
| GEN-2013-007 | 100.30 | OKGE | Tap Prices Falls - Carter 138kV |
| GEN-2014-057 | 250.00 | AEPW | Tap Lawton - Sunnyside (Terry Road) 345kV |
| GEN-2015-036 | 303.60 | OKGE | Johnston County 345kV |
| GEN-2015-045 | 20.00 | AEPW | Tap Lawton - Sunnyside (Terry Road) 345kV |
| GEN-2015-092 | 250.00 | AEPW | Tap Lawton - Sunnyside (Terry Road) 345kV |
| PRIOR QUEUED SUBTOTAL | 1,195.10 | | |
| AREA TOTAL | 1,195.10 | | |

| GROUP 15: E-SOUTH DAKOTA AREA | | | |
|--------------------------------------|-----------------|-------------|--|
| Request | Capacity | Area | Proposed Point of Interconnection |
| G255 | 100.00 | XEL | Yankee 115kV |
| GEN-2006-001IS | 10.00 | XEL | Marshall 115kV |
| GEN-2006-006IS | 10.00 | XEL | Marshall 115kV |
| GEN-2007-013IS | 50.00 | WAPA | Wessington Springs 230kV |
| GEN-2007-014IS | 100.00 | WAPA | Wessington Springs 230kV |
| GEN-2007-023IS | 50.00 | WAPA | Formit-Summit 115kV |
| GEN-2009-001IS | 200.00 | WAPA | Groton-Watertown 345kV |
| GEN-2009-018IS | 100.00 | WAPA | Groton 115kV |
| GEN-2010-001IS | 99.00 | WAPA | Bismarck-Glenham 230kV |
| GEN-2010-003IS | 34.00 | WAPA | Wessington Springs 230kV |
| GEN-2012-014IS | 99.50 | WAPA | Groton 115kV |
| GEN-2013-001IS | 90.00 | WAPA | Summit-Watertown 115kV |
| GEN-2013-009IS | 19.50 | WAPA | Redfield NW 115kV |
| GEN-2014-001IS | 103.70 | WAPA | Newell-Maurine 115kV |
| GEN-2015-097 | 100.00 | WAPA | Groton 115kV |
| PRIOR QUEUED SUBTOTAL | 1,165.70 | | |
| AREA TOTAL | 1,165.70 | | |

| GROUP 16: W-NORTH DAKOTA AREA | | | |
|--------------------------------------|-----------------|-------------|--|
| Request | Capacity | Area | Proposed Point of Interconnection |

| | | | |
|------------------------------|-----------------|------|-----------------------------------|
| G359 | 150.00 | MDU | MDU 230 kV system near Ellendale |
| G380 | 150.00 | OTP | Rugby 115kV |
| G408 | 12.00 | XEL | Tap McHenry - Souris 115kV |
| G502 | 50.60 | MP | Milton Young 230kV |
| G645 | 50.00 | OTP | Ladish 115kV |
| G723 | 10.00 | MDU | Haskett 115kV |
| G752 | 150.00 | MDU | Tap Bison - Hettinger 230kV |
| G788 | 49.00 | GRE | Ladish 115kV |
| G830 | 99.00 | GRE | GRE McHenry 115kV |
| GEN-2005-008IS | 50.00 | WAPA | Hilken 230kV [Ecklund 230kV] |
| GEN-2006-015IS | 50.00 | WAPA | Hilken 230kV [Ecklund 230kV] |
| GEN-2007-027IS | 99.00 | WAPA | Bismarck-Garrison 230kV #1 |
| GEN-2009-026IS | 110.00 | WAPA | Dickenson-Heskett 230kV |
| GEN-2010-007IS | 172.50 | WAPA | Antelope Valley 345kV |
| GEN-2012-006IS | 125.01 | WAPA | Williston-Ch. Creek 230kV |
| GEN-2012-012IS | 75.00 | WAPA | Wolf Point-Circle 115kV |
| GEN-2014-003IS | 91.00 | WAPA | Culbertson 115kV |
| GEN-2014-004IS | 384.20 | WAPA | Charlie Creek 345kV |
| GEN-2014-006IS | 125.00 | WAPA | Williston 115kV |
| GEN-2014-010IS | 150.00 | WAPA | Neset 115kV |
| GEN-2014-014IS | 151.50 | WAPA | Belfield-Rhame 230kV |
| GEN-2015-046 | 300.00 | WAPA | Tande 345kV |
| GEN-2015-091 | 101.20 | WAPA | Daglun 230kV |
| GEN-2015-096 | 150.00 | WAPA | Tap Belfied - Rhame 230kV |
| GEN-2015-098 | 100.00 | WAPA | Mingusville 230kV |
| J003 | 20.00 | MDU | Baker 115kV |
| J249 | 180.00 | MDU | MDU Tatanka 230kV |
| J262 | 100.00 | OTP | Jamestown 345 |
| J263 | 100.00 | OTP | Jamestown 345 |
| J316 | 150.00 | MDU | MDU 230 kV Tatanka-Ellendale line |
| PRIOR QUEUED SUBTOTAL | 3,505.01 | | |
| AREA TOTAL | 0.00 | | |

| GROUP 17: W-SOUTH DAKOTA AREA | | | |
|--------------------------------------|-----------------|-------------|--|
| Request | Capacity | Area | Proposed Point of Interconnection |
| GEN-2006-002IS | 51.00 | WAPA | Wessington Springs 230kV |
| GEN-2009-006IS | 90.00 | WAPA | Mission 115kV |
| GEN-2009-007IS | 100.00 | WAPA | Mission 115kV |
| GEN-2009-020AIS | 150.00 | WAPA | Tripp Junction 115kV |
| GEN-2012-009IS | 99.00 | WAPA | Tap Fort Randall - Lake Platte 230kV |
| PRIOR QUEUED SUBTOTAL | 490.00 | | |
| AREA TOTAL | 0.00 | | |

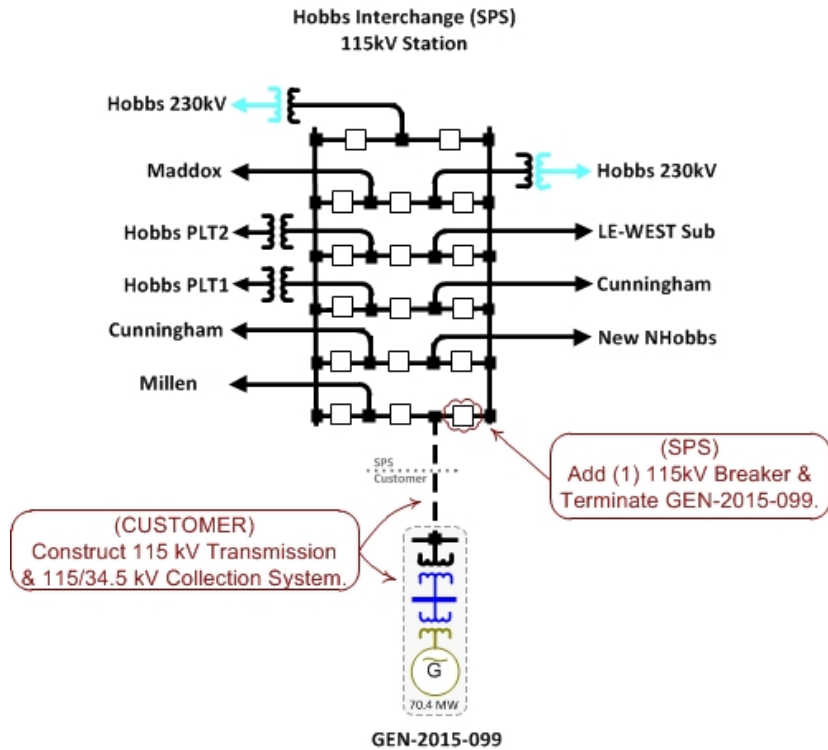
| GROUP 18: E-NORTH DAKOTA AREA | | | |
|--------------------------------------|-----------------|-------------|--|
| Request | Capacity | Area | Proposed Point of Interconnection |
| GEN-2002-008IS | 40.50 | WAPA | Edgeley 115kV [Pomona 115kV] |
| GEN-2005-003IS | 100.00 | WAPA | Nelson 115kV |
| GEN-2007-020IS | 16.00 | WAPA | Nelson 115kV |
| GEN-2008-008IS | 5.00 | WAPA | Nelson 115kV |
| PRIOR QUEUED SUBTOTAL | 161.50 | | |
| AREA TOTAL | 0.00 | | |

| | | |
|---|-----------------|-----------|
| CLUSTER TOTAL (CURRENT STUDY) | 430.4 | MW |
| PQ TOTAL (PRIOR QUEUED) | 43,064.6 | MW |
| CLUSTER TOTAL (INCLUDING PRIOR QUEUED) | 43,495.0 | MW |

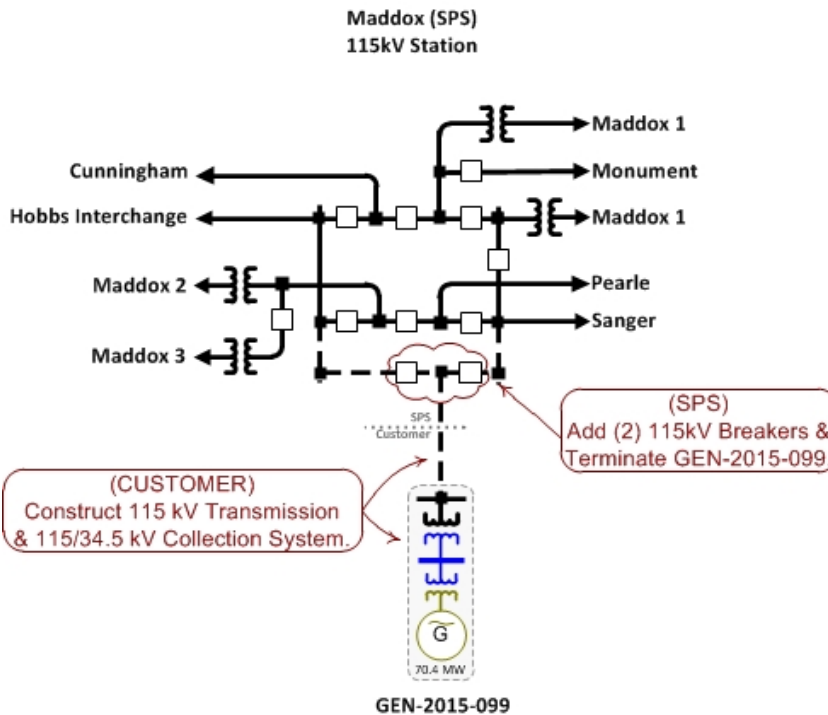
D: Proposed Point of Interconnection One line Diagrams

See next page.

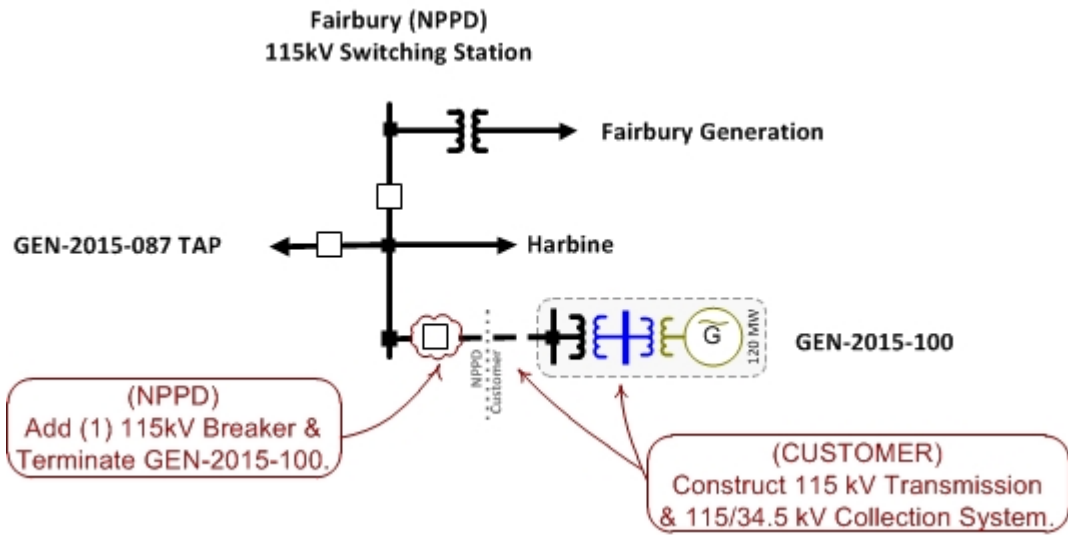
GEN-2015-099 (Hobbs 115kV)
Estimated Interconnection Costs: \$1,200,000



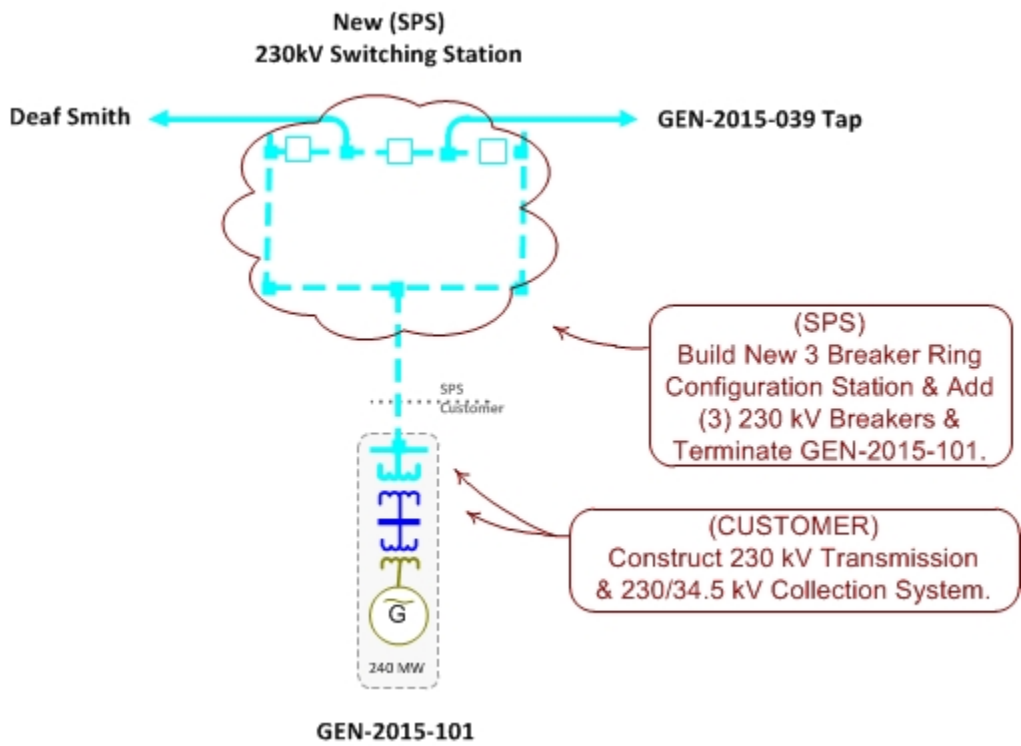
GEN-2015-099 (Maddox 115kV)
Estimated Interconnection Costs: \$2,000,000



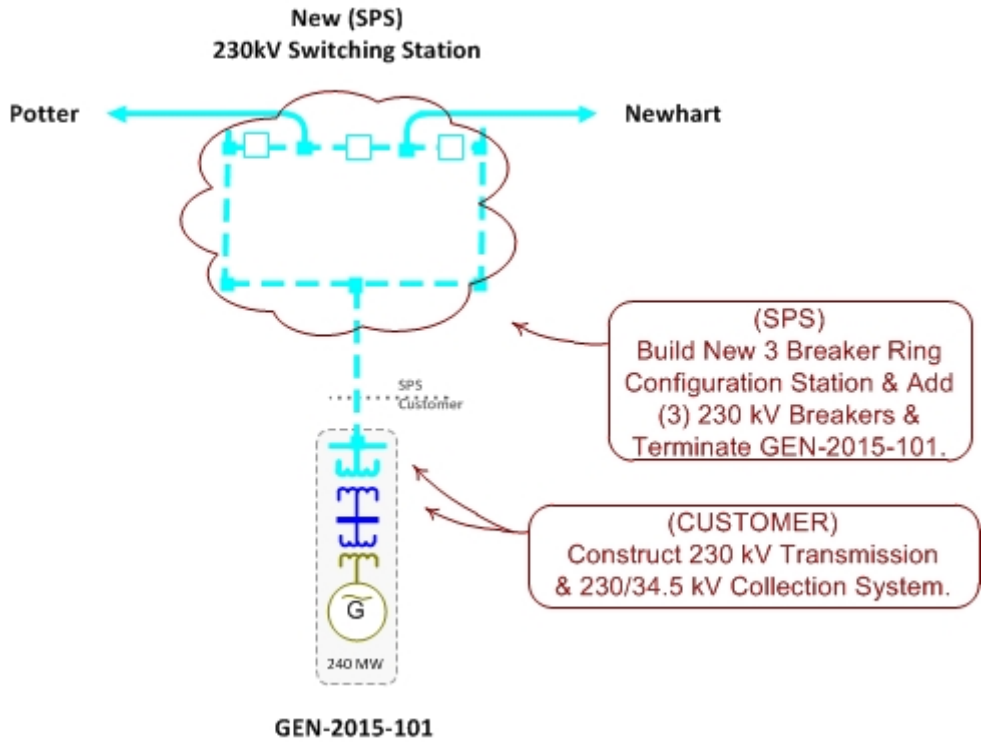
GEN-2015-100 (Fairbury 115kV)
Estimated Interconnection Costs: \$1,000,000



GEN-2015-101 (Tap Deaf Smith – Plant X 230kV)
Estimated Interconnection Costs: \$6,000,000



GEN-2015-101 (Tap Potter - Newhart 230kV)
Estimated Interconnection Costs: \$6,000,000



E: Cost Allocation per Interconnection Request (Including Prior Queued Upgrades)

Important Note:

****WITHDRAWAL OF HIGHER QUEUED PROJECTS WILL CAUSE A RESTUDY AND MAY RESULT IN HIGHER INTERCONNECTION COSTS****

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

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

In addition should a higher queued request, defined as one this study includes as a prior queued request, withdraw, the Network Upgrades assigned to the withdrawn request may be reallocated to the remaining requests that have an impact on the Network Upgrade under a restudy. Also, should an Interconnection Request choose to go into service prior to the operation date of any necessary Network Upgrades, the costs associated with those upgrades may be reallocated to the impacted Interconnection Request. The actual costs allocated to each Generator Interconnection Request Customer will be determined at the time of a restudy.

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

Appendix E. Cost Allocation Per Request

GEN 2015-099, POI-1

(Including Previously Allocated Network Upgrades*)

| Interconnection Request and Upgrades | Upgrade Type | Allocated Cost | Upgrade Cost |
|---|----------------------|----------------|--------------|
| GEN-2015-099-1 | | | |
| GEN-2015-099-1 Interconnection Costs See One-Line Diagram. | Current Study | \$1,200,000 | \$1,200,000 |
| Amoco Wasson - Oxy Tap 230kV CKT 1 Replace line traps at both terminals | Previously Allocated | | \$200,000 |
| Beaver County - Grapevine 345kV CKT 1 Build approximately 75 miles of new 345kV from Beaver County - Grapevine | Previously Allocated | | \$75,000,000 |
| Border - Chisholm 345kV CKT 2 Build approximately 25 miles of second circuit 345kV from Border - Chisholm | Previously Allocated | | \$25,000,000 |
| Border 345kV Reactive Power Support Install (6)-50Mvar Capacitor Bank(s) and +250Mvar SVC at Border Substation | Previously Allocated | | \$30,000,000 |
| Chisholm - Elk City 230kV CKT 1 Rebuild approximately 15 miles of 230kV from Chisholm - Elk City. | Previously Allocated | | \$15,000,000 |
| Chisholm Substation Upgrade 345kV Expand planned Chisholm Substation to tap and terminate Woodward - Border 345kV into the Chisholm Substation | Previously Allocated | | \$12,000,000 |
| Cimarron - Draper Lake 345kV CKT 1 Replace terminal equipment to at least 2000A assigned in 2015 ITP10 per SPP-NTC-200329 | Previously Allocated | | \$1,500,000 |
| Cimarron - Minco 345kV CKT 1 Replace 1600 amp switches. | Previously Allocated | | \$1,000,000 |
| Deaf Smith - GEN-2015-039 Tap 230kV CKT 1 Replace terminal equipment | Previously Allocated | | \$1,000,000 |
| Grapevine - Chisholm 345kV CKT 1 Build approximately 75 miles of new 345kV from Grapevine - Chisholm | Previously Allocated | | \$75,000,000 |
| Grapevine - Nichols 230kV CKT 1 Replace terminal equipment | Previously Allocated | | \$400,000 |
| Grapevine Substation Upgrade 345kV Build Grapevine Substation and terminate Beaver Co - Grapevine, Potter Co - Grapevine, Grapevine - Chisholm 345kV into the Grapevine Substation | Previously Allocated | | \$12,000,000 |
| Oklaunion 345kV Reactive Power Install (2)-130Mvar Capacitor Bank(s) at Oklaunion. | Previously Allocated | | \$10,000,000 |

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

| Interconnection Request and Upgrades | Upgrade Type | Allocated Cost | Upgrade Cost |
|--|----------------------------|-----------------------|---------------------|
| Oklaunion 345kV Reactive Power Support Incremental Upgrade Install (4)-50Mvar Capacitor Bank(s) and +300Mvar SVC at Oklaunion | Previously Allocated | | \$40,000,000 |
| Potter County - Grapevine 345kV CKT 1 Build approximately 65 miles of new 345kV from Potter County - Grapevine | Previously Allocated | | \$65,000,000 |
| Shamrock 115kV Capacitor Bank Add 2nd step of 9.6Mvars to Shamrock 115kV Capacitor Bank(s) | Previously Allocated | | \$500,000 |
| Stateline - Sweetwater 230kV CKT 1 Rebuild approximately 5 miles of 230kV. | Previously Allocated | | \$6,000,000 |
| Tolk - Plant X 230kV CKT 1 & 2 Rebuild circuit 1 and 2 between Tolk - Plant X 230kV to 1200 amps each. | Previously Allocated | | \$9,921,693 |
| Tolk - Potter County 345kV CKT 1 Build approximately 115 miles of 345kV from Tolk - Potter County | Previously Allocated | | \$105,000,000 |
| Tolk 345/230/13kV Transformer CKT 2 Build second 345/230/13kV transformer at Tolk | Previously Allocated | | \$15,000,000 |
| TUCO 2 - Border 345kV CKT 2 Build approximately 194 miles of second circuit 345kV from TUCO 2 - Border | Previously Allocated | | \$194,000,000 |
| TUCO 2 - Yoakum 345kV Retermination Incremental Upgrade for SPP-NTC-200283 to reterminate TUCO terminal to TUCO 2 terminal by adding approximately 3 miles of 345kV | Previously Allocated | | \$5,000,000 |
| TUCO 2 (Crawfish Draw) Substation Upgrade 345/230kV Tap Border-TUCO approximately 2 miles from TUCO and build TUCO 2 (Crawfish Draw) 345kV substation and add 345/230/13.2kV transformer and tie on TUCO-Swisher 230kV. | Previously Allocated | | \$24,764,205 |
| TUCO 345/230/13.2kV CKT 1 Replace existing TUCO 345/230/13.2kV Transformer circuit #1 with 700MVA. | Previously Allocated | | \$3,347,036 |
| | Current Study Total | | \$1,200,000 |
| TOTAL CURRENT STUDY COSTS: | | | \$1,200,000 |

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

Appendix E. Cost Allocation Per Request

GEN 2015-099, POI-2

(Including Previously Allocated Network Upgrades*)

| Interconnection Request and Upgrades | Upgrade Type | Allocated Cost | Upgrade Cost |
|---|----------------------|----------------|--------------|
| GEN-2015-099-2 | | | |
| GEN-2015-099-2 Interconnection Costs See One-Line Diagram. | Current Study | \$2,000,000 | \$2,000,000 |
| Amoco Wasson - Oxy Tap 230kV CKT 1 Replace line traps at both terminals | Previously Allocated | | \$200,000 |
| Beaver County - Grapevine 345kV CKT 1 Build approximately 75 miles of new 345kV from Beaver County - Grapevine | Previously Allocated | | \$75,000,000 |
| Border - Chisholm 345kV CKT 2 Build approximately 25 miles of second circuit 345kV from Border - Chisholm | Previously Allocated | | \$25,000,000 |
| Border 345kV Reactive Power Support Install (6)-50Mvar Capacitor Bank(s) and +250Mvar SVC at Border Substation | Previously Allocated | | \$30,000,000 |
| Chisholm - Elk City 230kV CKT 1 Rebuild approximately 15 miles of 230kV from Chisholm - Elk City. | Previously Allocated | | \$15,000,000 |
| Chisholm Substation Upgrade 345kV Expand planned Chisholm Substation to tap and terminate Woodward - Border 345kV into the Chisholm Substation | Previously Allocated | | \$12,000,000 |
| Cimarron - Draper Lake 345kV CKT 1 Replace terminal equipment to at least 2000A assigned in 2015 ITP10 per SPP-NTC-200329 | Previously Allocated | | \$1,500,000 |
| Cimarron - Minco 345kV CKT 1 Replace 1600 amp switches. | Previously Allocated | | \$1,000,000 |
| Deaf Smith - GEN-2015-039 Tap 230kV CKT 1 Replace terminal equipment | Previously Allocated | | \$1,000,000 |
| Grapevine - Chisholm 345kV CKT 1 Build approximately 75 miles of new 345kV from Grapevine - Chisholm | Previously Allocated | | \$75,000,000 |
| Grapevine - Nichols 230kV CKT 1 Replace terminal equipment | Previously Allocated | | \$400,000 |
| Grapevine Substation Upgrade 345kV Build Grapevine Substation and terminate Beaver Co - Grapevine, Potter Co - Grapevine, Grapevine - Chisholm 345kV into the Grapevine Substation | Previously Allocated | | \$12,000,000 |
| Oklaunion 345kV Reactive Power Install (2)-130Mvar Capacitor Bank(s) at Oklaunion. | Previously Allocated | | \$10,000,000 |

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

| Interconnection Request and Upgrades | Upgrade Type | Allocated Cost | Upgrade Cost |
|--|----------------------------|-----------------------|---------------------|
| Oklaunion 345kV Reactive Power Support Incremental Upgrade Install (4)-50Mvar Capacitor Bank(s) and +300Mvar SVC at Oklaunion | Previously Allocated | | \$40,000,000 |
| Potter County - Grapevine 345kV CKT 1 Build approximately 65 miles of new 345kV from Potter County - Grapevine | Previously Allocated | | \$65,000,000 |
| Shamrock 115kV Capacitor Bank Add 2nd step of 9.6Mvars to Shamrock 115kV Capacitor Bank(s) | Previously Allocated | | \$500,000 |
| Stateline - Sweetwater 230kV CKT 1 Rebuild approximately 5 miles of 230kV. | Previously Allocated | | \$6,000,000 |
| Tolk - Plant X 230kV CKT 1 & 2 Rebuild circuit 1 and 2 between Tolk - Plant X 230kV to 1200 amps each. | Previously Allocated | | \$9,921,693 |
| Tolk - Potter County 345kV CKT 1 Build approximately 115 miles of 345kV from Tolk - Potter County | Previously Allocated | | \$105,000,000 |
| Tolk 345/230/13kV Transformer CKT 2 Build second 345/230/13kV transformer at Tolk | Previously Allocated | | \$15,000,000 |
| TUCO 2 - Border 345kV CKT 2 Build approximately 194 miles of second circuit 345kV from TUCO 2 - Border | Previously Allocated | | \$194,000,000 |
| TUCO 2 - Yoakum 345kV Retermination Incremental Upgrade for SPP-NTC-200283 to reterminate TUCO terminal to TUCO 2 terminal by adding approximately 3 miles of 345kV | Previously Allocated | | \$5,000,000 |
| TUCO 2 (Crawfish Draw) Substation Upgrade 345/230kV Tap Border-TUCO approximately 2 miles from TUCO and build TUCO 2 (Crawfish Draw) 345kV substation and add 345/230/13.2kV transformer and tie on TUCO-Swisher 230kV. | Previously Allocated | | \$24,764,205 |
| TUCO 345/230/13.2kV CKT 1 Replace existing TUCO 345/230/13.2kV Transformer circuit #1 with 700MVA. | Previously Allocated | | \$3,347,036 |
| | Current Study Total | | \$2,000,000 |
| TOTAL CURRENT STUDY COSTS: | | | \$2,000,000 |

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

Appendix E. Cost Allocation Per Request GEN 2015-100

(Including Previously Allocated Network Upgrades*)

| Interconnection Request and Upgrades | Upgrade Type | Allocated Cost | Upgrade Cost |
|---|----------------------|----------------|--------------|
| GEN-2015-100 | | | |
| Bailey - Seneca 115kV CKT 1 Rebuild approximately 6 miles of 115kV. | Current Study | \$5,000,000 | \$5,000,000 |
| Fairbury - GEN-2015-087T 115kV CKT 1 Rebuild approximately 17 miles of 115kV. | Current Study | \$15,369,300 | \$15,369,300 |
| Fairbury - Harbine 115kV CKT 1 Rebuild approximately 10 miles of 115kV. | Current Study | \$8,838,000 | \$8,838,000 |
| GEN-2015-087T - Hebron 115kV CKT 1 Rebuild approximately 5 miles of 115kV. | Current Study | \$4,520,700 | \$4,520,700 |
| GEN-2015-100 Interconnection Costs See One-Line Diagram. | Current Study | \$1,000,000 | \$1,000,000 |
| Marshal - Smittyville 115kV CKT 1 Rebuild approximately 2 miles of 115kV. | Current Study | \$1,953,000 | \$1,953,000 |
| Pauline - Rosemont 115kV CKT 1 Rebuild approximately 10 miles of 115kV. | Current Study | \$9,576,000 | \$9,576,000 |
| Smittyville - Bailey 115kV CKT 1 Rebuild approximately 8 miles of 115kV. | Current Study | \$7,200,000 | \$7,200,000 |
| Battle Creek - County Line 115kV CKT 1 Rebuild approximately 11 miles of 115kV from Battle Creek to County Line. | Previously Allocated | | \$4,000,000 |
| Belden - Rasmussen 230kV CKT 1 Build approximately 25 miles of new 230kV | Previously Allocated | | \$25,000,000 |
| Belden 230/115/13kV Transformer CKT 1 Build Belden 230kV yard and install Belden 230/115/13kV Transformer circuit #1 | Previously Allocated | | \$10,000,000 |
| Columbus East 230/115/13kV Transformer CKT 1 NRIS only required upgrade: Replace Columbus East 230/115/13kV Transformer circuit #1 | Previously Allocated | | \$10,000,000 |
| County Line - Neligh East 115kV CKT 1 Rebuild approximately 12 miles of 115kV from County Line to Neligh East. | Previously Allocated | | \$8,050,000 |
| Dixon County - Belden 230kV CKT 1 Build approximately 50 miles of new 230kV | Previously Allocated | | \$50,000,000 |

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

| Interconnection Request and Upgrades | Upgrade Type | Allocated Cost | Upgrade Cost |
|--|----------------------------|-----------------------|---------------------|
| Dixon County 345/230/13kV Transformer CKT 1 Build Dixon County 345kV yard and install 345/230/13kV Transformer circuit #1 | Previously Allocated | | \$15,000,000 |
| Holt County - Antelope 345kV CKT 1 Build approximately 30 miles of new 345kV | Previously Allocated | | \$36,000,000 |
| Hoskins - Neligh 345/115kV Projects Per SPP 2014 ITP NT and NTC 200253 for 6/1/2016 in-service. | Previously Allocated | | \$98,697,720 |
| Sidney 230/115/13kV Transformer CKT 1 Replace Sidney 230/115/13kV Transformer circuit #1 to at least 150MVA | Previously Allocated | | \$3,276,500 |
| Swissvale - West Gardner 345kV CKT 1 Replacement terminal equipment to at least 1600 amps | Previously Allocated | | \$1,000,000 |
| | Current Study Total | | \$53,457,000 |
| TOTAL CURRENT STUDY COSTS: | | | \$53,457,000 |

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

Appendix E. Cost Allocation Per Request

GEN 2015-101, POI-1

(Including Previously Allocated Network Upgrades*)

| Interconnection Request and Upgrades | Upgrade Type | Allocated Cost | Upgrade Cost |
|--|----------------------|----------------|--------------|
| GEN-2015-101-1 | | | |
| Bushland 230/115/13.2kV CKT 1 Replace Bushland 230/115/13.2kV Transformer circuit #1 with 250 MVA. | Current Study | \$4,000,000 | \$4,000,000 |
| Coulter - Hillside 115kV CKT 1 Replace Terminal Equipment at Coulter Substation. | Current Study | \$400,000 | \$400,000 |
| Deaf Smith - Plant X 230kV CKT 1 Replace wave trap at Deaf Smith | Current Study | \$1,000,000 | \$1,000,000 |
| GEN-2015-101-1 Interconnection Costs See One-Line Diagram. | Current Study | \$6,000,000 | \$6,000,000 |
| Lubbock - Holly Plant 230/69/13.5kV CKT 2 NRIS only required upgrade: Add Lubbock - Holly Plant 230/69/13.5kV Transformer circuit #2. | Current Study | \$6,000,000 | \$6,000,000 |
| Beaver County - Grapevine 345kV CKT 1 Build approximately 75 miles of new 345kV from Beaver County - Grapevine | Previously Allocated | | \$75,000,000 |
| Border - Chisholm 345kV CKT 2 Build approximately 25 miles of second circuit 345kV from Border - Chisholm | Previously Allocated | | \$25,000,000 |
| Border 345kV Reactive Power Support Install (6)-50Mvar Capacitor Bank(s) and +250Mvar SVC at Border Substation | Previously Allocated | | \$30,000,000 |
| Bushland - Potter County 230kV CKT 1 NRIS only required upgrade: Replace line traps at both terminals | Previously Allocated | | \$400,000 |
| Carlisle - LP-Doug 115kV CKT 1 NRIS only required upgrade: Replace line traps | Previously Allocated | | \$400,000 |
| Carlisle 230/115/13kV Transformer CKT 1 NRIS only required upgrade: Replace existing Carlisle 230/115/13kV Transformer circuit #1 with 250 MVA. | Previously Allocated | | \$4,192,913 |
| Chisholm - Elk City 230kV CKT 1 Rebuild approximately 15 miles of 230kV from Chisholm - Elk City. | Previously Allocated | | \$15,000,000 |
| Chisholm Substation Upgrade 345kV Expand planned Chisholm Substation to tap and terminate Woodward - Border 345kV into the Chisholm Substation | Previously Allocated | | \$12,000,000 |
| Cimarron - Draper Lake 345kV CKT 1 Replace terminal equipment to at least 2000A assigned in 2015 ITP10 per SPP-NTC-200329 | Previously Allocated | | \$1,500,000 |

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

| Interconnection Request and Upgrades | Upgrade Type | Allocated Cost | Upgrade Cost |
|---|----------------------|-----------------------|---------------------|
| Cimarron - Minco 345kV CKT 1 Replace 1600 amp switches. | Previously Allocated | | \$1,000,000 |
| Cox Interchange - Hale County 115kV CKT 1 NRIS only required upgrade: Rebuild approximately 20 miles of 115kV from Hale Co to Cox Co | Previously Allocated | | \$15,000,000 |
| Elk City 230/138/13kV Transformer CKT 1 Replace terminal equipment for Elk City Transformer to achieve transformer limit of 450MVA. | Previously Allocated | | \$15,000,000 |
| Grapevine - Chisholm 345kV CKT 1 Build approximately 75 miles of new 345kV from Grapevine - Chisholm | Previously Allocated | | \$75,000,000 |
| Grapevine - Nichols 230kV CKT 1 Replace terminal equipment | Previously Allocated | | \$400,000 |
| Grapevine Substation Upgrade 345kV Build Grapevine Substation and terminate Beaver Co - Grapevine, Potter Co - Grapevine, Grapevine - Chisholm 345kV into the Grapevine Substation | Previously Allocated | | \$12,000,000 |
| LP-Wadsworth 230/69/13kV Transformer CKT 1 NRIS only required upgrade: Replace existing LP-Wadsworth 230/69kV Transformer | Previously Allocated | | \$6,000,000 |
| Mustang 230/115/13.2KV Transformer CKT 2 NRIS only required upgrade: Build second Mustang 230/115 Transformer | Previously Allocated | | \$6,000,000 |
| Oklauion 345kV Reactive Power Install (2)-130Mvar Capacitor Bank(s) at Oklaunion. | Previously Allocated | | \$10,000,000 |
| Oklauion 345kV Reactive Power Support Incremental Upgrade Install (4)-50Mvar Capacitor Bank(s) and +300Mvar SVC at Oklaunion | Previously Allocated | | \$40,000,000 |
| Potash Junction 230kV Reactive Power Support Build Potash Junction 100Mvar Capacitor bank per 2015 ITPNT. | Previously Allocated | | \$6,465,875 |
| Potter County - Grapevine 345kV CKT 1 Build approximately 65 miles of new 345kV from Potter County - Grapevine | Previously Allocated | | \$65,000,000 |
| Shamrock 115kV Capacitor Bank Add 2nd step of 9.6Mvars to Shamrock 115kV Capacitor Bank(s) | Previously Allocated | | \$500,000 |
| Stateline - Sweetwater 230kV CKT 1 Rebuild approximately 5 miles of 230kV. | Previously Allocated | | \$6,000,000 |
| Sundown Interchange 230/115/13.8kV Transformer CKT 1 NRIS only required upgrade: Replace existing Sundown Interchange Transformer circuit #1 with 250 MVA. | Previously Allocated | | \$6,020,434 |
| Tolk - Potter County 345kV CKT 1 Build approximately 115 miles of 345kV from Tolk - Potter County | Previously Allocated | | \$105,000,000 |

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

| Interconnection Request and Upgrades | Upgrade Type | Allocated Cost | Upgrade Cost |
|--|----------------------------|-----------------------|---------------------|
| Tolk 345/230/13kV Transformer CKT 2 Build second 345/230/13kV transformer at Tolk | Previously Allocated | | \$15,000,000 |
| TUCO 2 - Border 345kV CKT 2 Build approximately 194 miles of second circuit 345kV from TUCO 2 - Border | Previously Allocated | | \$194,000,000 |
| TUCO 2 - Yoakum 345kV Retermination Incremental Upgrade for SPP-NTC-200283 to reterminate TUCO terminal to TUCO 2 terminal by adding approximately 3 miles of 345kV | Previously Allocated | | \$5,000,000 |
| TUCO 2 (Crawfish Draw) Substation Upgrade 345/230kV Tap Border-TUCO approximately 2 miles from TUCO and build TUCO 2 (Crawfish Draw) 345kV substation and add 345/230/13.2kV transformer and tie on TUCO-Swisher 230kV. | Previously Allocated | | \$24,764,205 |
| TUCO 230/115kV CKT 1 Transformer NRIS only required upgrade: Replace TUCO 230/115kV transformer per SPP-2012-AG3-AFS9 SPP-NTC-200297 | Previously Allocated | | \$3,800,415 |
| TUCO 345/230/13.2kV CKT 1 Replace existing TUCO 345/230/13.2kV Transformer circuit #1 with 700MVA. | Previously Allocated | | \$3,347,036 |
| Wolfforth Interchange 230/115/13.2kV Transformer CKT 1 NRIS only required upgrade: Replace existing Wolfforth Interchange Transformer circuit #1 with 250 MVA. | Previously Allocated | | \$6,020,434 |
| | Current Study Total | | \$17,400,000 |
| TOTAL CURRENT STUDY COSTS: | | | \$17,400,000 |

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

Appendix E. Cost Allocation Per Request

GEN 2015-101, POI-2

(Including Previously Allocated Network Upgrades*)

| Interconnection Request and Upgrades | Upgrade Type | Allocated Cost | Upgrade Cost |
|--|----------------------|----------------|--------------|
| GEN-2015-101-2 | | | |
| GEN-2015-101-2 Interconnection Costs See One-Line Diagram. | Current Study | \$6,000,000 | \$6,000,000 |
| Lubbock - Holly Plant 230/69/13.5kV CKT 2 Add Lubbock - Holly Plant 230/69/13.5kV Transformer circuit #2. | Current Study | \$6,000,000 | \$6,000,000 |
| Potter 345/230/13.2kV CKT 3 Add Potter 345/230/13.2kV Transformer circuit #3. | Current Study | \$10,000,000 | \$10,000,000 |
| Beaver County - Grapevine 345kV CKT 1 Build approximately 75 miles of new 345kV from Beaver County - Grapevine | Previously Allocated | | \$75,000,000 |
| Border - Chisholm 345kV CKT 2 Build approximately 25 miles of second circuit 345kV from Border - Chisholm | Previously Allocated | | \$25,000,000 |
| Border 345kV Reactive Power Support Install (6)-50Mvar Capacitor Bank(s) and +250Mvar SVC at Border Substation | Previously Allocated | | \$30,000,000 |
| Carlisle - LP-Doug 115kV CKT 1 NRIS only required upgrade: Replace line traps | Previously Allocated | | \$400,000 |
| Carlisle 230/115/13kV Transformer CKT 1 NRIS only required upgrade: Replace existing Carlisle 230/115/13kV Transformer circuit #1 with 250 MVA. | Previously Allocated | | \$4,192,913 |
| Chisholm - Elk City 230kV CKT 1 Rebuild approximately 15 miles of 230kV from Chisholm - Elk City. | Previously Allocated | | \$15,000,000 |
| Chisholm Substation Upgrade 345kV Expand planned Chisholm Substation to tap and terminate Woodward - Border 345kV into the Chisholm Substation | Previously Allocated | | \$12,000,000 |
| Cimarron - Draper Lake 345kV CKT 1 Replace terminal equipment to at least 2000A assigned in 2015 ITP10 per SPP-NTC-200329 | Previously Allocated | | \$1,500,000 |
| Cimarron - Minco 345kV CKT 1 Replace 1600 amp switches. | Previously Allocated | | \$1,000,000 |
| Cox Interchange - Hale County 115kV CKT 1 NRIS only required upgrade: Rebuild approximately 20 miles of 115kV from Hale Co to Cox Co | Previously Allocated | | \$15,000,000 |
| Elk City 230/138/13kV Transformer CKT 1 Replace terminal equipment for Elk City Transformer to achieve transformer limit of 450MVA. | Previously Allocated | | \$15,000,000 |

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

| Interconnection Request and Upgrades | Upgrade Type | Allocated Cost | Upgrade Cost |
|---|----------------------|-----------------------|---------------------|
| Grapevine - Chisholm 345kV CKT 1 Build approximately 75 miles of new 345kV from Grapevine - Chisholm | Previously Allocated | | \$75,000,000 |
| Grapevine - Nichols 230kV CKT 1 Replace terminal equipment | Previously Allocated | | \$400,000 |
| Grapevine Substation Upgrade 345kV Build Grapevine Substation and terminate Beaver Co - Grapevine, Potter Co - Grapevine, Grapevine - Chisholm 345kV into the Grapevine Substation | Previously Allocated | | \$12,000,000 |
| Kress Interchange - Swisher 115kV CKT 1 Replace terminal equipment | Previously Allocated | | \$500,000 |
| LP-Wadsworth 230/69/13kV Transformer CKT 1 NRIS only required upgrade: Replace existing LP-Wadsworth 230/69kV Transformer | Previously Allocated | | \$6,000,000 |
| Oklaunion 345kV Reactive Power Install (2)-130Mvar Capacitor Bank(s) at Oklaunion. | Previously Allocated | | \$10,000,000 |
| Oklaunion 345kV Reactive Power Support Incremental Upgrade Install (4)-50Mvar Capacitor Bank(s) and +300Mvar SVC at Oklaunion | Previously Allocated | | \$40,000,000 |
| Potash Junction 230/115 kV Ckt 1 Per HPILs SPP-NTC-200282 (Total Project E&C Cost Shown) | Previously Allocated | | \$3,508,346 |
| Potash Junction 230kV Reactive Power Support Build Potash Junction 100Mvar Capacitor bank per 2015 ITPNT. | Previously Allocated | | \$6,465,875 |
| Potter County - Grapevine 345kV CKT 1 Build approximately 65 miles of new 345kV from Potter County - Grapevine | Previously Allocated | | \$65,000,000 |
| Shamrock 115kV Capacitor Bank Add 2nd step of 9.6Mvars to Shamrock 115kV Capacitor Bank(s) | Previously Allocated | | \$500,000 |
| Stateline - Sweetwater 230kV CKT 1 Rebuild approximately 5 miles of 230kV. | Previously Allocated | | \$6,000,000 |
| Sundown Interchange 230/115/13.8kV Transformer CKT 1 NRIS only required upgrade: Replace existing Sundown Interchange Transformer circuit #1 with 250 MVA. | Previously Allocated | | \$6,020,434 |
| Tolk 345/230/13kV Transformer CKT 2 Build second 345/230/13kV transformer at Tolk | Previously Allocated | | \$15,000,000 |
| TUCO 2 - Border 345kV CKT 2 Build approximately 194 miles of second circuit 345kV from TUCO 2 - Border | Previously Allocated | | \$194,000,000 |
| TUCO 2 - Yoakum 345kV Retermination Incremental Upgrade for SPP-NTC-200283 to reterminate TUCO terminal to TUCO 2 terminal by adding approximately 3 miles of 345kV | Previously Allocated | | \$5,000,000 |

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

| Interconnection Request and Upgrades | Upgrade Type | Allocated Cost | Upgrade Cost |
|--|----------------------------|-----------------------|---------------------|
| TUCO 2 (Crawfish Draw) Substation Upgrade 345/230kV Tap Border-TUCO approximately 2 miles from TUCO and build TUCO 2 (Crawfish Draw) 345kV substation and add 345/230/13.2kV transformer and tie on TUCO-Swisher 230kV. | Previously Allocated | | \$24,764,205 |
| TUCO 230/115kV CKT 1 Transformer NRIS only required upgrade: Replace TUCO 230/115kV transformer per SPP-2012-AG3-AFS9 SPP-NTC-200297 | Previously Allocated | | \$3,800,415 |
| TUCO 345/230/13.2kV CKT 1 Replace existing TUCO 345/230/13.2kV Transformer circuit #1 with 700MVA. | Previously Allocated | | \$3,347,036 |
| | Current Study Total | | \$22,000,000 |
| TOTAL CURRENT STUDY COSTS: | | | \$22,000,000 |

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

F: Cost Allocation per Proposed Study Network Upgrade

Important Note:

****WITHDRAWAL OF HIGHER QUEUED PROJECTS WILL CAUSE A RESTUDY AND MAY RESULT IN HIGHER INTERCONNECTION COSTS****

This section shows each Direct Assigned Facility and Network Upgrade and the Generator Interconnection Request Customer(s) which have an impact in this study assuming all higher queued projects remain in the queue and achieve commercial operation.

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

There may be additional costs allocated to each Customer. See Appendix E for more details.

Appendix F. Cost Allocation by Upgrade GEN 2015-099, POI-1

| | | |
|---|------------------------------|--------------------|
| GEN-2015-099-1 Interconnection Costs | | \$1,200,000 |
| See One-Line Diagram. | | |
| | GEN-2015-099-1 | \$1,200,000 |
| | Total Allocated Costs | \$1,200,000 |

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

Appendix F. Cost Allocation by Upgrade GEN 2015-099, POI-2

| | | |
|---|------------------------------|--------------------|
| GEN-2015-099-2 Interconnection Costs | | \$2,000,000 |
| See One-Line Diagram. | | |
| | GEN-2015-099-2 | \$2,000,000 |
| | Total Allocated Costs | \$2,000,000 |

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

Appendix F. Cost Allocation by Upgrade GEN 2015-100

| | | |
|---|--------------|---------------------|
| Bailey - Seneca 115kV CKT 1 | | \$5,000,000 |
| Rebuild approximately 6 miles of 115kV. | | |
| GEN-2015-100 | \$5,000,000 | |
| Total Allocated Costs | | \$5,000,000 |
| Fairbury - GEN-2015-087T 115kV CKT 1 | | \$15,369,300 |
| Rebuild approximately 17 miles of 115kV. | | |
| GEN-2015-100 | \$15,369,300 | |
| Total Allocated Costs | | \$15,369,300 |
| Fairbury - Harbine 115kV CKT 1 | | \$8,838,000 |
| Rebuild approximately 10 miles of 115kV. | | |
| GEN-2015-100 | \$8,838,000 | |
| Total Allocated Costs | | \$8,838,000 |
| GEN-2015-087T - Hebron 115kV CKT 1 | | \$4,520,700 |
| Rebuild approximately 5 miles of 115kV. | | |
| GEN-2015-100 | \$4,520,700 | |
| Total Allocated Costs | | \$4,520,700 |
| GEN-2015-100 Interconnection Costs | | \$1,000,000 |
| See One-Line Diagram. | | |
| GEN-2015-100 | \$1,000,000 | |
| Total Allocated Costs | | \$1,000,000 |
| Marshal - Smittyville 115kV CKT 1 | | \$1,953,000 |
| Rebuild approximately 2 miles of 115kV. | | |
| GEN-2015-100 | \$1,953,000 | |
| Total Allocated Costs | | \$1,953,000 |
| Pauline - Rosemont 115kV CKT 1 | | \$9,576,000 |
| Rebuild approximately 10 miles of 115kV. | | |
| GEN-2015-100 | \$9,576,000 | |
| Total Allocated Costs | | \$9,576,000 |

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

Smittyville - Bailey 115kV CKT 1

\$7,200,000

Rebuild approximately 8 miles of 115kV.

GEN-2015-100

\$7,200,000

Total Allocated Costs

\$7,200,000

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

Appendix F. Cost Allocation by Upgrade GEN 2015-101, POI-1

| | | |
|---|----------------|--------------------|
| Bushland 230/115/13.2kV CKT 1 | | \$4,000,000 |
| Replace Bushland 230/115/13.2kV Transformer circuit #1 with 250 MVA. | | |
| | GEN-2015-101-1 | \$4,000,000 |
| Total Allocated Costs | | \$4,000,000 |
| Coulter - Hillside 115kV CKT 1 | | \$400,000 |
| Replace Terminal Equipment at Coulter Substation. | | |
| | GEN-2015-101-1 | \$400,000 |
| Total Allocated Costs | | \$400,000 |
| Deaf Smith - Plant X 230kV CKT 1 | | \$1,000,000 |
| Replace wave trap at Deaf Smith | | |
| | GEN-2015-101-1 | \$1,000,000 |
| Total Allocated Costs | | \$1,000,000 |
| GEN-2015-101-1 Interconnection Costs | | \$6,000,000 |
| See One-Line Diagram. | | |
| | GEN-2015-101-1 | \$6,000,000 |
| Total Allocated Costs | | \$6,000,000 |
| Lubbock - Holly Plant 230/69/13.5kV CKT 2 | | \$6,000,000 |
| NRIS only required upgrade: Add Lubbock - Holly Plant 230/69/13.5kV Transformer circuit #2. | | |
| | GEN-2015-101-1 | \$6,000,000 |
| Total Allocated Costs | | \$6,000,000 |

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

Appendix F. Cost Allocation by Upgrade GEN 2015-101, POI-2

| | | |
|---|--------------|---------------------|
| GEN-2015-101-2 Interconnection Costs | | \$6,000,000 |
| See One-Line Diagram. | | |
| GEN-2015-101-2 | \$6,000,000 | |
| Total Allocated Costs | | \$6,000,000 |
| Lubbock - Holly Plant 230/69/13.5kV CKT 2 | | \$6,000,000 |
| Add Lubbock - Holly Plant 230/69/13.5kV Transformer circuit #2. | | |
| GEN-2015-101-2 | \$6,000,000 | |
| Total Allocated Costs | | \$6,000,000 |
| Potter 345/230/13.2kV CKT 3 | | \$10,000,000 |
| Add Potter 345/230/13.2kV Transformer circuit #3. | | |
| GEN-2015-101-2 | \$10,000,000 | |
| Total Allocated Costs | | \$10,000,000 |

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

G: FCITC Analysis Constraints Requiring Transmission Reinforcement

See next page.

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|--------|-------------------|------------|-----|-----------------------|-------------|
|--------|-------|----------|-----------|--------|-------------------|------------|-----|-----------------------|-------------|

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|--------|-------------------|------------|-----|-----------------------|-------------|
|--------|-------|----------|-----------|--------|-------------------|------------|-----|-----------------------|-------------|

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|--|
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.20578 | 114.7053 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.20536 | 112.5063 | BEATRICE - HARBINE 115KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.7 | 0.20574 | 111.6932 | BEATRICE - HARBINE 115KV CKT 1 |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.20568 | 108.4973 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.12093 | 106.7234 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09NR | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.12093 | 106.7234 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20L | 09NR | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.12093 | 106.7234 | P12:115:WERE:KNOB-MKEC_115:: |
| 17G | 09NR | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.11912 | 105.3212 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 17G | 09NR | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.11912 | 105.3212 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 17G | 09NR | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.11912 | 105.3212 | P12:115:WERE:KNOB-MKEC_115:: |
| 17G | 09NR | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.20321 | 104.978 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.2049 | 104.8273 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.12093 | 104.7432 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20L | 09NR | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.07906 | 103.9463 | KELLY - S1399 5 161KV CKT 1 |
| 20L | 09NR | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.12093 | 102.9831 | CLIFTON - CONCORDIA 115KV CKT 1 |
| 17G | 09NR | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.11912 | 102.1026 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.1 | 0.20578 | 112.9785 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.20536 | 111.5522 | BEATRICE - HARBINE 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.20574 | 109.6072 | BEATRICE - HARBINE 115KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.2 | 0.20568 | 106.6315 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.12093 | 105.746 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09NR | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.12093 | 105.746 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.12093 | 105.746 | P12:115:WERE:KNOB-MKEC_115:: |
| 20L | 09NR | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.2049 | 103.8456 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.12093 | 103.7614 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.8 | 0.11912 | 103.4459 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 17G | 09NR | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.8 | 0.11912 | 103.4459 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.8 | 0.11912 | 103.4459 | P12:115:WERE:KNOB-MKEC_115:: |
| 17G | 09NR | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.8 | 0.20321 | 103.1016 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.07906 | 102.8525 | KELLY - S1399 5 161KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.12093 | 101.9974 | CLIFTON - CONCORDIA 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.8 | 0.11912 | 100.2165 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.3 | 0.99474 | 122.6105 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.6 | 0.99459 | 122.2336 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.7 | 0.99936 | 122.2109 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.9 | 0.99938 | 121.9612 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.8 | 0.99926 | 121.7791 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.9 | 0.99456 | 121.7569 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.2 | 0.99447 | 121.5886 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.4 | 0.99498 | 121.5447 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|---|
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.4 | 0.99956 | 121.5447 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.3 | 0.99979 | 121.4649 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.8 | 0.99486 | 121.1538 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.9 | 0.99959 | 121.1325 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 99 | 0.99957 | 121.1111 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.9 | 0.99497 | 121.0313 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.8 | 0.99926 | 116.2691 | FAIRBURY - HARBINE 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.9 | 0.99456 | 115.2678 | FAIRBURY - HARBINE 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.7 | 0.99936 | 111.2827 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.9 | 0.99938 | 110.6492 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.3 | 0.99979 | 108.2144 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.2 | 0.99447 | 106.9617 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.6 | 0.99459 | 105.7898 | FAIRBURY - HARBINE 115KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.3 | 0.99474 | 105.2095 | FAIRBURY - HARBINE 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.4 | 0.99956 | 102.2837 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 99 | 0.99957 | 102.0691 | FAIRBURY - HARBINE 115KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.9 | 0.99959 | 101.7703 | FAIRBURY - HARBINE 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.99926 | 191.2 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.99456 | 190.3346 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.99936 | 186.8821 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.99938 | 186.0918 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.99979 | 184.9535 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.99447 | 183.6626 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.99459 | 181.2251 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.99474 | 180.6895 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.99956 | 179.9249 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98.3 | 0.99957 | 178.6861 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.99959 | 178.2151 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.68164 | 177.8656 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.99498 | 176.0306 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.99497 | 174.4861 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.99486 | 174.3444 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.78154 | 167.9147 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.68103 | 167.2054 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.67224 | 166.328 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.68147 | 165.2735 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.68136 | 164.2041 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.78154 | 162.5869 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.77288 | 162.3166 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.67341 | 159.8447 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.78151 | 158.3996 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.78131 | 157.4663 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.78146 | 157.4541 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.77288 | 156.9996 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.77421 | 155.0002 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.77327 | 153.593 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63387 | 153.4471 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63387 | 153.4471 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--------------------------------|------------|---------|-----------------------|---|
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63402 | 152.8508 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63387 | 152.7299 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.77267 | 152.7014 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.78131 | 152.528 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.78151 | 151.7261 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63577 | 151.5291 | MCCOOL - MOORE 345KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.78146 | 151.2041 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.77421 | 150.0569 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63817 | 149.5701 | CRETE - FRIEND 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.78163 | 148.0863 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.68168 | 147.6797 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.77327 | 147.2144 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62337 | 147.1415 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62337 | 147.1415 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63652 | 146.9082 | AXTELL - POST ROCK 345KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62237 | 146.7121 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62337 | 146.528 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.6229 | 146.4485 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.62193 | 146.0119 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.77267 | 146.0004 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63511 | 144.6857 | CLIFTON - CONCORDIA 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63997 | 144.6685 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63997 | 144.6685 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62293 | 144.6335 | MCCOOL - MOORE 345KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.6606 | 144.2336 | GENEVA - MCCOOL 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63387 | 143.7135 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63387 | 143.5086 | MARSHAL3 115.00 115/34.5KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.62246 | 143.5002 | MCCOOL - MOORE 345KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.62343 | 143.0161 | MCCOOL - MOORE 345KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.62382 | 142.9613 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.62382 | 142.9613 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.62382 | 142.7556 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.78165 | 142.549 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63813 | 142.4955 | CRETE - SHELDON 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62724 | 142.1971 | CRETE - FRIEND 115KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.623 | 142.1237 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.623 | 142.1237 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63402 | 141.9902 | G15088_T 345.00 - PAULINE 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.68167 | 141.9392 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.623 | 141.9175 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63369 | 141.8304 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63369 | 141.8304 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63387 | 141.4419 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.77259 | 141.2302 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63369 | 141.1117 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63356 | 140.6017 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63356 | 140.6017 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63375 | 140.2152 | G15088_T 345.00 - MOORE 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--------------------------------|------------|---------|-----------------------|---|
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63356 | 139.8844 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.67256 | 139.7193 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.62776 | 139.4354 | CRETE - FRIEND 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.6331 | 139.3745 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.6331 | 139.3745 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.77304 | 138.9835 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.62678 | 138.9831 | CRETE - FRIEND 115KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.67198 | 138.8017 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.65005 | 138.7587 | GENEVA - MCCOOL 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62307 | 138.7202 | AXTELL - POST ROCK 345KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.6331 | 138.6543 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63554 | 138.5676 | MCCOOL - MOORE 345KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.62382 | 138.2407 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62502 | 138.2105 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62502 | 138.2105 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.623 | 138.0008 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63387 | 137.7709 | BASE CASE |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62502 | 137.5926 | P12:115:WERE:KNOB-MKEC_115:: |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63798 | 137.4308 | CRETE - FRIEND 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62828 | 137.3145 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62828 | 137.3145 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.6332 | 137.2263 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62207 | 136.9615 | P12:345:SUNC-NPPD:MINGO-REDWILLOW::531451-640325(1) |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63539 | 136.5234 | MCCOOL - MOORE 345KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62337 | 136.4053 | P12:345:SUNC-NPPD:MINGO-REDWILLOW::531451-640325(1) |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62337 | 136.2008 | MARSHAL3 115.00 115/34.5KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.77291 | 136.1727 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62482 | 136.1261 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62237 | 135.9759 | G15088_T 345.00 - PAULINE 345KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62337 | 135.7051 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.6229 | 135.5432 | G15088_T 345.00 - PAULINE 345KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63786 | 135.4951 | CRETE - FRIEND 115KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.62193 | 135.0841 | G15088_T 345.00 - PAULINE 345KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.63473 | 133.9173 | MCCOOL - MOORE 345KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.63734 | 133.5193 | CRETE - FRIEND 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98.3 | 0.78207 | 133.5182 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.78163 | 133.1224 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63369 | 133.0501 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.62342 | 133.0354 | ANTELOPE 3345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.65997 | 132.5066 | GENEVA - MCCOOL 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63619 | 132.4875 | AXTELL - POST ROCK 345KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.62259 | 132.2792 | ANTELOPE 3345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.6331 | 132.1889 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63356 | 132.1455 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62571 | 132.1166 | MCCOOL - MOORE 345KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62901 | 132.1125 | CRETE - FRIEND 115KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.62745 | 132.0926 | CRETE - SHELDON 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.66047 | 131.9881 | GENEVA - MCCOOL 115KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--------------------------------|------------|---------|-----------------------|---|
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63369 | 131.9741 | AXTELL - POST ROCK 345KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62502 | 131.9501 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.62351 | 131.9148 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63369 | 131.7688 | MARSHAL3 115.00 115/34.5KV TRANSFORMER CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63483 | 131.6012 | CLIFTON - CONCORDIA 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62337 | 131.5996 | BASE CASE |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.62648 | 131.4202 | CRETE - SHELDON 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63977 | 131.2858 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63977 | 131.2858 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.62269 | 131.2606 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.66036 | 131.1918 | GENEVA - MCCOOL 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.65209 | 131.0513 | GENEVA - MCCOOL 115KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.62382 | 131.0272 | HEBRON (HEBRON T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.61467 | 130.9263 | MOORE (MOORE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.61467 | 130.9263 | MOORE (MOORE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63356 | 130.868 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63356 | 130.5607 | MARSHAL3 115.00 115/34.5KV TRANSFORMER CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63387 | 130.5589 | G15088_T 345.00 - PAULINE 345KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63794 | 130.3417 | CRETE - SHELDON 115KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.623 | 130.268 | HEBRON (HEBRON T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.623 | 130.268 | P14:035:NPPD:HEBRON 9:CAP |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63598 | 130.2434 | AXTELL - POST ROCK 345KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.62678 | 130.2202 | P12:115:NPPD:1259A:CRETE__7:GENEVA 7:BTB |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.6391 | 129.93 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.6391 | 129.93 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.63543 | 129.6827 | AXTELL - POST ROCK 345KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.6331 | 129.6008 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63375 | 129.457 | G15088_T 345.00 - PAULINE 345KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.6331 | 129.3951 | MARSHAL3 115.00 115/34.5KV TRANSFORMER CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63467 | 129.3652 | CLIFTON - CONCORDIA 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98.3 | 0.68223 | 128.8582 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63963 | 128.7455 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63359 | 128.7201 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.63727 | 128.6753 | CRETE - SHELDON 115KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.62382 | 127.8379 | BASE CASE |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.63047 | 127.7615 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.63047 | 127.7615 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63385 | 127.7214 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63385 | 127.7214 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.63417 | 127.4696 | CLIFTON - CONCORDIA 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62502 | 127.3969 | PAULINE (PAULINE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62502 | 127.1909 | MARSHAL3 115.00 115/34.5KV TRANSFORMER CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62501 | 127.1897 | AXTELL - POST ROCK 345KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62856 | 127.0105 | CRETE - SHELDON 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63385 | 126.999 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.623 | 126.9691 | BASE CASE |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.78165 | 126.6306 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.62274 | 126.3727 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--------------------------------|------------|---------|-----------------------|---|
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.62274 | 126.3727 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.62274 | 126.2694 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.77259 | 126.2508 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.4 | 0.63369 | 126.122 | BASE CASE |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.62274 | 126.045 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.62158 | 125.0926 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63394 | 125.0493 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63356 | 124.9254 | BASE CASE |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63385 | 124.3505 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62338 | 124.2141 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62338 | 124.2141 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.77304 | 124.1724 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62338 | 124.112 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62338 | 123.7978 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.6331 | 123.6337 | BASE CASE |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62234 | 122.5544 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62502 | 122.4536 | BASE CASE |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.62198 | 121.3198 | MCCOOL - MOORE 345KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63565 | 121.2363 | MCCOOL - MOORE 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63384 | 121.0825 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63384 | 121.0825 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.62313 | 120.6894 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.62313 | 120.6894 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63813 | 120.6146 | CRETE - FRIEND 115KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.62313 | 120.4853 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.6718 | 120.4711 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63384 | 120.3682 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.77291 | 120.3563 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.62313 | 120.1616 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.62647 | 120.0169 | CRETE - FRIEND 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63643 | 119.9913 | AXTELL - POST ROCK 345KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.67227 | 118.9708 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98.3 | 0.78207 | 118.8692 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63501 | 118.4739 | CLIFTON - CONCORDIA 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63385 | 117.9174 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62273 | 117.9036 | MCCOOL - MOORE 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63384 | 117.849 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63385 | 117.711 | MARSHAL3 115.00 115/34.5KV TRANSFORMER CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63385 | 117.4014 | CARLTON JUNCTION (CARLN.JCT T2) 115/69/13.8KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.62204 | 117.2906 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.6718 | 117.2686 | P12:115:NPPD:1173:SUPEROR7:HEBRN N7:BTB |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62721 | 117.227 | CRETE - FRIEND 115KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.6718 | 117.062 | HEBRON - NORTH HEBRON 115KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.6223 | 116.8141 | ANTELOPE 3345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.62274 | 116.662 | CARLTON JUNCTION (CARLN.JCT T2) 115/69/13.8KV TRANSFORMER CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63385 | 116.5759 | GENEVA (GENEVA T2) 115/69/13.8KV TRANSFORMER CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63385 | 116.5759 | P14:069:NPPD:GENEVA 8:CAP |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63394 | 116.5029 | G15088_T 345.00 - MOORE 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|---|
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.67208 | 115.969 | PAULINE - ROSEMONT 115.00 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63431 | 115.9104 | GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.62274 | 115.8355 | GENEVA (GENEVA T2) 115/69/13.8KV TRANSFORMER CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.62274 | 115.8355 | P14:069:NPPD:GENEVA 8:CAP |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63394 | 115.7614 | ANTELOPE 3345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.67227 | 115.4978 | P12:115:NPPD:1173:SUPEROR7:HEBRN N7:BTB |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.61356 | 115.4207 | MOORE (MOORE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.61356 | 115.4207 | MOORE (MOORE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.67227 | 115.3957 | HEBRON - NORTH HEBRON 115KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63632 | 114.8555 | AXTELL - POST ROCK 345KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62296 | 114.561 | ANTELOPE 3345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62338 | 114.5103 | CARLTON JUNCTION (CARLN.JCT T2) 115/69/13.8KV TRANSFORMER CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62338 | 113.6932 | GENEVA (GENEVA T2) 115/69/13.8KV TRANSFORMER CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62338 | 113.6932 | P14:069:NPPD:GENEVA 8:CAP |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63495 | 113.5653 | CLIFTON - CONCORDIA 115KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.6142 | 113.2829 | MOORE (MOORE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.62689 | 113.0886 | CRETE - FRIEND 115KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.67208 | 112.9078 | P12:115:NPPD:1173:SUPEROR7:HEBRN N7:BTB |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63812 | 112.831 | CRETE - FRIEND 115KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.67208 | 112.7037 | HEBRON - NORTH HEBRON 115KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.62235 | 112.6347 | MCCOOL - MOORE 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63562 | 112.4229 | MCCOOL - MOORE 345KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.9 | 0.63385 | 111.9319 | BASE CASE |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63384 | 111.3886 | MCCOOL - MOORE 345KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.62313 | 111.3016 | CARLTON JUNCTION (CARLN.JCT T2) 115/69/13.8KV TRANSFORMER CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.62274 | 111.1868 | BASE CASE |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63384 | 111.1845 | CARLTON JUNCTION (CARLN.JCT T2) 115/69/13.8KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63384 | 111.1845 | MARSHAL3 115.00 115/34.5KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.62269 | 110.8396 | ANTELOPE 3345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.62313 | 110.4853 | GENEVA (GENEVA T2) 115/69/13.8KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.62313 | 110.4853 | P14:069:NPPD:GENEVA 8:CAP |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63384 | 110.3682 | GENEVA (GENEVA T2) 115/69/13.8KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63384 | 110.3682 | P14:069:NPPD:GENEVA 8:CAP |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63428 | 110.218 | GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.62278 | 109.9322 | AXTELL - POST ROCK 345KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.61393 | 109.7669 | MOORE (MOORE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.61393 | 109.7669 | MOORE (MOORE T1) 345/115/13.8KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63448 | 109.4261 | G15061_T 345.00 - SETAB 345KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62338 | 109.1988 | BASE CASE |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.62313 | 105.6894 | BASE CASE |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98.3 | 0.63451 | 105.5353 | S.FLATS.PLT7115.00 - STEELE CITY 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98.3 | 0.63451 | 105.5353 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98 | 0.63384 | 105.4702 | BASE CASE |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98.3 | 0.63451 | 104.8232 | S.FLATS.PLT7115.00 (STL.FLTS GSU) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98.3 | 0.99957 | 102.7959 | FAIRBURY - G15087_T 115.00 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98.3 | 0.63451 | 102.2112 | FAIRBURY (FAIRBURY T1) 115/34.5/13.8KV TRANSFORMER CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 98.3 | 0.63464 | 102.0924 | G15088_T 345.00 - MOORE 345KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 97.8 | 0.99957 | 198.8752 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|---|
| 25SP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98 | 0.99497 | 197.449 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.2 | 0.99959 | 197.2505 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98 | 0.99486 | 197.2449 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99956 | 195.45 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99498 | 195.2477 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99979 | 194.9444 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99938 | 194.9444 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99936 | 194.8433 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20L | 09NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99447 | 194.8433 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17G | 09NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99456 | 194.5399 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99474 | 194.3377 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99459 | 194.3377 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99926 | 194.1355 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99926 | 188.6868 | FAIRBURY - HARBINE 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99456 | 188.2176 | FAIRBURY - HARBINE 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99936 | 184.0477 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99938 | 183.6457 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99979 | 181.7743 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99447 | 180.3199 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 97.8 | 0.99957 | 179.5996 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99459 | 178.11 | FAIRBURY - HARBINE 115KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.2 | 0.99959 | 177.8521 | FAIRBURY - HARBINE 115KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99474 | 177.2182 | FAIRBURY - HARBINE 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99956 | 176.2863 | FAIRBURY - HARBINE 115KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98 | 0.99497 | 174.4861 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98 | 0.99486 | 174.1665 | FAIRBURY - HARBINE 115KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.99498 | 172.2928 | FAIRBURY - HARBINE 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.6285 | 128.8372 | BEATRICE - HARBINE 115KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.62875 | 123.3064 | BEATRICE - HARBINE 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 97.8 | 0.62834 | 121.4732 | BEATRICE - HARBINE 115KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.2 | 0.62837 | 121.2876 | BEATRICE - HARBINE 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.62834 | 119.6166 | BEATRICE - HARBINE 115KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.63645 | 117.5672 | BEATRICE - HARBINE 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.63601 | 117.5138 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.62996 | 116.1731 | BEATRICE - HARBINE 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.62793 | 114.8146 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.63407 | 113.0317 | BEATRICE - HARBINE 115KV CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.63565 | 112.3134 | BEATRICE - HARBINE 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 97.8 | 0.41152 | 112.2519 | KNOB HILL - STEELE CITY 115KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98.9 | 0.63683 | 110.6366 | BEATRICE - HARBINE 115KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98 | 0.63648 | 109.569 | BEATRICE - HARBINE 115KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 98 | 0.63619 | 107.9008 | BEATRICE - HARBINE 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 97.8 | 0.37649 | 100.7963 | CLIFTON - CONCORDIA 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 97.8 | 0.37706 | 100.6618 | P12:115:WERE:MARS-SSEN_115:: |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 97.8 | 0.37706 | 100.5595 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | G15087_T 115.00 - NORTH HEBRON 115KV CKT 1 | 97.8 | 0.37706 | 100.1505 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.20578 | 116.2002 | BEATRICE - HARBINE 115KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|---|
| 20L | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.20536 | 113.6739 | BEATRICE - HARBINE 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.20574 | 113.3061 | BEATRICE - HARBINE 115KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.20568 | 110.0128 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.12093 | 107.8064 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09NR | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.12093 | 107.8064 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.12093 | 107.8064 | P12:115:WERE:KNOB-MKEC_115:: |
| 17G | 09NR | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.11912 | 106.9628 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 17G | 09NR | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.11912 | 106.9628 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.11912 | 106.9628 | P12:115:WERE:KNOB-MKEC_115:: |
| 17G | 09NR | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.20321 | 106.6208 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.2049 | 105.9144 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.12093 | 105.8305 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.07906 | 105.0353 | KELLY - S1399 5 161KV CKT 1 |
| 20L | 09NR | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.12093 | 104.0742 | CLIFTON - CONCORDIA 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.11912 | 103.7549 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.20527 | 101.453 | BEATRICE - HARBINE 115KV CKT 1 |
| 17G | 09NR | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.07778 | 100.2584 | KELLY - S1399 5 161KV CKT 1 |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 115.8 | 0.31567 | 126.6732 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 115.8 | 0.31567 | 123.1264 | FAIRBURY - HARBINE 115KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 116.8 | 0.3155 | 120.6229 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 116.8 | 0.3155 | 119.1438 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 116.5 | 0.31546 | 117.406 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 116.7 | 0.31548 | 117.0365 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 116.5 | 0.31546 | 114.3821 | FAIRBURY - HARBINE 115KV CKT 1 |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 116.7 | 0.31548 | 114.1025 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20L | 09NR | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 117.2 | 0.31428 | 112.3068 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 115.8 | 0.21848 | 109.9461 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 117.3 | 0.31556 | 109.5345 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20L | 09NR | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 117.2 | 0.31428 | 108.4587 | FAIRBURY - HARBINE 115KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 117.1 | 0.31563 | 108.4468 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17G | 09NR | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 117.7 | 0.31498 | 107.564 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17SP | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 117 | 0.31564 | 107.5159 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 115.8 | 0.21848 | 107.1827 | CARLTON JUNCTION - GENEVA 115KV CKT 1 |
| 17G | 09NR | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 117.7 | 0.31498 | 105.8603 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 117.3 | 0.2175 | 105.5413 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 115.8 | 0.19914 | 105.4376 | BEATRICE - HARBINE 115KV CKT 1 |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 117.3 | 0.31556 | 104.4904 | FAIRBURY - HARBINE 115KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 117.1 | 0.31563 | 103.3097 | FAIRBURY - HARBINE 115KV CKT 1 |
| 17SP | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 117 | 0.31564 | 102.3733 | FAIRBURY - HARBINE 115KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 116.8 | 0.21772 | 100.2794 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | PAULINE - ROSEMONT 115.00 115KV CKT 1 | 116.5 | 0.21792 | 100.2149 | CARLTON JUNCTION - NORTH HEBRON 115KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | SWISSVALE - WEST GARDNER 345KV CKT 1 | 714.1 | 0.02962 | 104.5168 | HOYT - STRANGER CREEK 345KV CKT 1 |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.20655 | 113.2589 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.20611 | 111.3927 | BEATRICE - HARBINE 115KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.8 | 0.20652 | 110.2254 | BEATRICE - HARBINE 115KV CKT 1 |
| 20WP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.5 | 0.20645 | 107.1536 | BEATRICE - HARBINE 115KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|--|
| 20L | 09NR | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.12376 | 106.657 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20L | 09NR | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.12376 | 106.547 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09NR | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.12376 | 106.547 | P12:115:WERE:KNOB-MKEC_115:: |
| 17G | 09NR | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.12193 | 105.2515 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 17G | 09NR | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.12193 | 105.2515 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 17G | 09NR | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.12193 | 105.2515 | P12:115:WERE:KNOB-MKEC_115:: |
| 20L | 09NR | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.12376 | 104.6768 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20L | 09NR | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.08096 | 103.8671 | KELLY - S1399 5 161KV CKT 1 |
| 17G | 09NR | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.2038 | 103.8357 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.20553 | 103.8103 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.12376 | 102.9166 | CLIFTON - CONCORDIA 115KV CKT 1 |
| 17G | 09NR | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.12193 | 102.0329 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.2 | 0.20655 | 111.5144 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.20611 | 110.3243 | BEATRICE - HARBINE 115KV CKT 1 |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.20652 | 108.3696 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.12376 | 105.5691 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09NR | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.12376 | 105.5691 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20L | 09NR | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.12376 | 105.5691 | P12:115:WERE:KNOB-MKEC_115:: |
| 20WP | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.2 | 0.20645 | 105.4036 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.12376 | 103.5846 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 17G | 09NR | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.8 | 0.12193 | 103.3759 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 17G | 09NR | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.8 | 0.12193 | 103.2646 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 17G | 09NR | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.8 | 0.12193 | 103.2646 | P12:115:WERE:KNOB-MKEC_115:: |
| 20L | 09NR | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.08096 | 102.8834 | KELLY - S1399 5 161KV CKT 1 |
| 20L | 09NR | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.20553 | 102.7162 | BEATRICE - HARBINE 115KV CKT 1 |
| 17G | 09NR | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.8 | 0.2038 | 101.9555 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.7 | 0.12376 | 101.8205 | CLIFTON - CONCORDIA 115KV CKT 1 |
| 17G | 09NR | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.8 | 0.12193 | 100.1465 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 95.8 | 0.99474 | 123.6952 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20WP | 00NR | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 96.1 | 0.99459 | 123.3091 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 96.4 | 0.99936 | 123.1328 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20WP | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 96.7 | 0.99938 | 122.7508 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 96.2 | 0.99926 | 122.6611 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17G | 09NR | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 96.6 | 0.99456 | 122.4638 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20L | 09NR | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.3 | 0.99447 | 122.0966 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.7 | 0.99498 | 122.0061 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 17SP | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.7 | 0.99956 | 122.0061 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.4 | 0.99979 | 121.9713 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.9 | 0.99957 | 121.2336 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.6 | 0.99959 | 121.1968 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.5 | 0.99486 | 121.1168 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.6 | 0.99497 | 121.0953 | P12:115:NPPD:1175B:FAIRBRY7:HARBINE7:BTB |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|--------------------------------------|
| 17G | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 96.2 | 0.99926 | 117.0595 | FAIRBURY - HARBINE 115KV CKT 1 |
| 17G | 09NR | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 96.6 | 0.99456 | 115.8874 | FAIRBURY - HARBINE 115KV CKT 1 |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 96.4 | 0.99936 | 112.0573 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20WP | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 96.7 | 0.99938 | 111.2984 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.4 | 0.99979 | 108.5984 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20L | 09NR | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.3 | 0.99447 | 107.2317 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20WP | 00NR | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 96.1 | 0.99459 | 106.6085 | FAIRBURY - HARBINE 115KV CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 95.8 | 0.99474 | 106.0217 | FAIRBURY - HARBINE 115KV CKT 1 |
| 17SP | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 97.7 | 0.99956 | 102.6072 | FAIRBURY - HARBINE 115KV CKT 1 |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.9 | 0.99957 | 102.1723 | FAIRBURY - HARBINE 115KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | FAIRBURY - G15087_T 115.00 115KV CKT 1 | 98.6 | 0.99959 | 101.8771 | FAIRBURY - HARBINE 115KV CKT 1 |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.20655 | 114.7586 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.20611 | 112.4541 | BEATRICE - HARBINE 115KV CKT 1 |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.20652 | 111.9671 | BEATRICE - HARBINE 115KV CKT 1 |
| 20WP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.20645 | 108.7916 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.12376 | 107.7401 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20L | 09NR | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.12376 | 107.6303 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09NR | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.12376 | 107.6303 | P12:115:WERE:KNOB-MKEC_115:: |
| 17G | 09NR | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.12193 | 106.8934 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 17G | 09NR | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.12193 | 106.7827 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 17G | 09NR | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.12193 | 106.7827 | P12:115:WERE:KNOB-MKEC_115:: |
| 20L | 09NR | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.12376 | 105.7642 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 17G | 09NR | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.2038 | 105.4823 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.08096 | 104.9563 | KELLY - S1399 5 161KV CKT 1 |
| 20L | 09NR | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.20553 | 104.8997 | BEATRICE - HARBINE 115KV CKT 1 |
| 20L | 09NR | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.1 | 0.12376 | 104.0079 | CLIFTON - CONCORDIA 115KV CKT 1 |
| 17G | 09NR | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.12193 | 103.6854 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.20605 | 101.2279 | BEATRICE - HARBINE 115KV CKT 1 |
| 17G | 09NR | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.07967 | 100.2881 | KELLY - S1399 5 161KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | SWISSVALE - WEST GARDNER 345KV CKT 1 | 714.1 | 0.03034 | 104.5289 | HOYT - STRANGER CREEK 345KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | SWISSVALE - WEST GARDNER 345KV CKT 1 | 714.1 | 0.02977 | 104.4493 | HOYT - STRANGER CREEK 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|---|
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 360.8 | 0.36813 | 112.8745 | P12:345:SPS:J15.1.XRDS.TOLK |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 360.7 | 0.37507 | 111.7596 | P12:345:SPS:J15.1.XRDS.TOLK |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 350.3 | 0.36112 | 111.6382 | P12:345:SPS:J15.1.XRDS.TOLK |
| 20L | 06NR | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 350.1 | 0.30543 | 109.3125 | P12:345:SPS:J15.1.XRDS.TOLK |
| 20L | 06NR | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 350.1 | 0.30085 | 105.9423 | POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1 |
| 20L | 06NR | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 350.1 | 0.30568 | 105.8164 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 350.3 | 0.35063 | 105.41 | POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1 |
| 17G | 06NR | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 350.6 | 0.3002 | 105.2618 | P12:345:SPS:J15.1.XRDS.TOLK |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 360.8 | 0.3569 | 104.0344 | POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 360.7 | 0.3633 | 103.2692 | POTTER COUNTY INTERCHANGE - TOLK STATION 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 349.6 | 0.37124 | 100.3998 | P12:345:SPS:J15.1.XRDS.TOLK |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 350.3 | 0.3475 | 100.2284 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 | 476.2 | 0.6487 | 100.0815 | P12:345:SPS:J15.1.XRDS.TOLK |
| 17G | 06NR | 0 | FROM->TO | G15_101_1 | DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1 | 95.8 | 0.12504 | 101.1582 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 222.3 | 0.03581 | 102.9215 | LUBBOCK POWER & LIGHT-SOUTHEAST - LUBBOCK SOUTH INTERCHANGE 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 222.3 | 0.03581 | 102.8765 | P12:LPL:SPS:K64.1.LP-SE.LUBBS |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 224 | 0.03581 | 102.0064 | LUBBOCK POWER & LIGHT-SOUTHEAST - LUBBOCK SOUTH INTERCHANGE 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 224 | 0.03581 | 101.9171 | P12:LPL:SPS:K64.1.LP-SE.LUBBS |
| 17G | 06NR | 2 | FROM->TO | G15_101_1 | DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1 | 95.9 | 0.12504 | 101.5741 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 222.3 | 0.03581 | 102.9215 | LUBBOCK POWER & LIGHT-SOUTHEAST - LUBBOCK SOUTH INTERCHANGE 230KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 222.3 | 0.03581 | 102.8765 | P12:LPL:SPS:K64.1.LP-SE.LUBBS |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 224 | 0.03581 | 102.0064 | LUBBOCK POWER & LIGHT-SOUTHEAST - LUBBOCK SOUTH INTERCHANGE 230KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 224 | 0.03581 | 101.9171 | P12:LPL:SPS:K64.1.LP-SE.LUBBS |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|---|
| 25SP | 00NR | 0 | TO->FROM | G15_101_2 | KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1 | 236.4 | 0.0468 | 102.2978 | SWISHER COUNTY INTERCHANGE - TUCO_2 230.00 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 222.3 | 0.03581 | 102.9215 | LUBBOCK POWER & LIGHT-SOUTHEAST - LUBBOCK SOUTH INTERCHANGE 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 222.3 | 0.03581 | 102.8765 | P12:LPL:SPS:K64.1.LP-SE.LUBBS |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 224 | 0.03581 | 102.0064 | LUBBOCK POWER & LIGHT-SOUTHEAST - LUBBOCK SOUTH INTERCHANGE 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 224 | 0.03581 | 101.9171 | P12:LPL:SPS:K64.1.LP-SE.LUBBS |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 559 | 0.30102 | 101.3855 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 559.9 | 0.30102 | 101.2939 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 2 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 558.2 | 0.2733 | 100.321 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 2 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 559.7 | 0.2733 | 100.1236 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 2 | 559.8 | 0.34158 | 101.315 | P13:230-345:SPS:POTTER_CO.1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 2 | 559.8 | 0.34158 | 101.315 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 2 | 558.2 | 0.34158 | 100.695 | P13:230-345:SPS:POTTER_CO.1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 2 | 558.2 | 0.34158 | 100.695 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_101_2 | KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1 | 236.4 | 0.04652 | 102.5655 | SWISHER COUNTY INTERCHANGE - TUCO_2 230.00 230KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 222.3 | 0.03581 | 102.9215 | LUBBOCK POWER & LIGHT-SOUTHEAST - LUBBOCK SOUTH INTERCHANGE 230KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 222.3 | 0.03581 | 102.8765 | P12:LPL:SPS:K64.1.LP-SE.LUBBS |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 224 | 0.03581 | 102.0064 | LUBBOCK POWER & LIGHT-SOUTHEAST - LUBBOCK SOUTH INTERCHANGE 230KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | LUBBOCK POWER & LIGHT-HOLLY PLANT (SHIH T101039) 230/69/13.5KV TRANSFORMER CKT 1 | 224 | 0.03581 | 101.9171 | P12:LPL:SPS:K64.1.LP-SE.LUBBS |

H: FCITC Analysis Constraints Not Requiring Transmission Reinforcement

See next page.

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 226.2 | 0.045 | 108.3974 | CIMARRON - MINCO 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01049 | 149.2071 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01285 | 148.7863 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01049 | 144.7428 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01285 | 144.2717 | DBL-BVR-G1114 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.6 | 0.0132 | 123.2558 | DBL-G1114-WWRD |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.6 | 0.0132 | 118.9639 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00827 | 114.7035 | DBL-OTA-BVR |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00867 | 114.0973 | P12:345:SPS:FINNEY-HITCHLAND |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00867 | 114.0973 | P12:345:SPS:J07.1.FINN.HITCH |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00867 | 114.0973 | P12:345:SPS:WALKEMEYER-HITCHLAND |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01032 | 113.6179 | DBL-OTA-BVR |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00827 | 112.2481 | DBL-HTCH-OTA |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.9 | 0.01427 | 112.1816 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01032 | 111.1348 | DBL-HTCH-OTA |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00811 | 109.321 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01022 | 107.9585 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.9 | 0.01427 | 107.704 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01022 | 106.6041 | FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.00986 | 105.8692 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00752 | 105.4329 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00811 | 103.9639 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.00919 | 103.2788 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00778 | 101.6794 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00735 | 100.9416 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00735 | 100.9416 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.00986 | 100.6773 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00778 | 100.5633 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00729 | 100.2625 | CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00729 | 100.2625 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00729 | 100.2625 | P13:138-230:AEPW:ELKCTY-4 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.4 | 0.01285 | 110.2762 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | TO->FROM | G15_099_1 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.7 | 0.01049 | 108.6839 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.4 | 0.01285 | 107.0711 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_1 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.7 | 0.01049 | 105.4941 | DBL-BVR-G1114 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | CASTRO COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1 | 173.7 | 0.0135 | 102.6244 | P12:115:SPS:W51.1.NEWHART.CASTRO |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | CASTRO COUNTY INTERCHANGE - NEWHART 115KV CKT 1 | 169.8 | 0.01086 | 104.1644 | P12:115:SPS:T04.1.DFSMTH.CASTRO |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | CASTRO COUNTY INTERCHANGE - NEWHART 115KV CKT 1 | 170.3 | 0.01158 | 101.1874 | P12:115:SPS:T04.1.DFSMTH.CASTRO |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.01285 | 120.1127 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.01285 | 116.9974 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.3 | 0.01049 | 115.4662 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.3 | 0.01049 | 112.3558 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01285 | 124.4018 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01285 | 121.3153 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01049 | 118.5876 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01049 | 115.5012 | DBL-BVR-G1114 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.0132 | 108.2237 | DBL-G1114-WWRD |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.0132 | 105.1421 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01032 | 100.3591 | DBL-OTA-BVR |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|---|
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 141.8 | 0.02301 | 136.6951 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 141.8 | 0.02301 | 127.5273 | DBL-THIS-G1524 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.7 | 0.02384 | 123.6809 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.8 | 0.02624 | 117.9013 | DBL-G1524-WICH |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.7 | 0.02384 | 114.4307 | DBL-THIS-G1524 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.8 | 0.02624 | 107.9573 | DBL-THIS-G1524 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.02301 | 190.391 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.02301 | 178.1037 | DBL-THIS-G1524 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.7 | 0.02055 | 176.2617 | DBL-G1524-WICH |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109 | 0.02444 | 175.9039 | DBL-G1524-WICH |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.2 | 0.02384 | 169.032 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.7 | 0.02624 | 164.8234 | DBL-G1524-WICH |
| 20L | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.7 | 0.02055 | 162.9527 | DBL-THIS-G1524 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109 | 0.02444 | 162.5094 | DBL-THIS-G1524 |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.2 | 0.02384 | 156.9248 | DBL-THIS-G1524 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.7 | 0.02624 | 151.7599 | DBL-THIS-G1524 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 107 | 0.02574 | 145.4463 | DBL-G1524-WICH |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 107 | 0.02574 | 131.6145 | DBL-THIS-G1524 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.0123 | 104.2281 | DBL-TGA-MATT |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01193 | 102.3129 | G1524G1525 345.00 - THISTLE7 345.00 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01193 | 102.3129 | G1524G1525 345.00 - THISTLE7 345.00 345KV CKT 2 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.0123 | 100.1638 | DBL-G1151-TGA |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01908 | 114.5299 | ONEY - WASHITA 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03413 | 112.6728 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01908 | 111.6841 | BINGER NIJECT - ONEY 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01914 | 111.4373 | ONEY - WASHITA 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03404 | 110.0045 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.02951 | 109.407 | DBL-TGA-MATT |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01914 | 108.9191 | BINGER NIJECT - ONEY 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03128 | 108.0324 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01908 | 107.4485 | BINGER NIJECT - SICKLES 138KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02749 | 106.9945 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.02943 | 106.8759 | DBL-TGA-MATT |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.03269 | 106.3885 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03119 | 106.2968 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.03395 | 105.749 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.02951 | 105.2321 | DBL-G1151-TGA |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01914 | 104.943 | BINGER NIJECT - SICKLES 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.02951 | 103.973 | DBL-WWRD-G1151 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02385 | 102.9439 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.02943 | 102.7065 | DBL-G1151-TGA |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03128 | 102.3995 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02818 | 101.9833 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.02943 | 101.4491 | DBL-WWRD-G1151 |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 187 | 0.03491 | 100.9511 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.0294 | 100.9057 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03119 | 100.6714 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01908 | 100.1685 | HYDRO - SICKLES 138KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_1 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00587 | 112.5889 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 16WP | 06ALL | 0 | TO->FROM | G15_099_1 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00617 | 109.0172 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_1 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00587 | 108.1208 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_1 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00617 | 104.5491 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.4 | 0.00587 | 120.7105 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.3 | 0.00617 | 117.2052 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.4 | 0.00587 | 116.2801 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.3 | 0.00617 | 112.5541 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.006 | 110.0667 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00596 | 110.0594 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.006 | 104.4256 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00596 | 104.4184 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.4 | 0.01179 | 100.2527 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | CUNNINGHAM STATION - MADDOX STATION 115KV CKT 1 | 159.5 | 0.09294 | 113.1654 | P12:115:SPS:T94.1.MADDOX.HOBBG |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | CUNNINGHAM STATION - MADDOX STATION 115KV CKT 1 | 159.8 | 0.09274 | 100.2406 | P12:115:SPS:T94.1.MADDOX.HOBBG |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | DUNCAN - TOSCO 69KV CKT 1 | 47.6 | 0.00587 | 126.5058 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | DUNCAN - TOSCO 69KV CKT 1 | 47.5 | 0.00617 | 122.6065 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | DUNCAN - TOSCO 69KV CKT 1 | 47.6 | 0.00587 | 121.884 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | DUNCAN - TOSCO 69KV CKT 1 | 38.9 | 0.006 | 119.6041 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | DUNCAN - TOSCO 69KV CKT 1 | 39 | 0.00596 | 119.2901 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | DUNCAN - TOSCO 69KV CKT 1 | 47.5 | 0.00617 | 117.9749 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | DUNCAN - TOSCO 69KV CKT 1 | 38.9 | 0.006 | 113.9486 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | DUNCAN - TOSCO 69KV CKT 1 | 39 | 0.00596 | 113.6491 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | DUNCAN - TOSCO 69KV CKT 1 | 48 | 0.00606 | 105.4797 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | DUNCAN - TOSCO 69KV CKT 1 | 48 | 0.00606 | 100.8964 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | EARLSBORO 4138.00 - FIXICO TAP 138KV CKT 1 | 96.6 | 0.00573 | 100.2141 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00573 | 110.7287 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00742 | 108.6874 | MAUD (MAUD1) 138/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00721 | 107.0226 | P12:138:AEPW:MCALEST4:C-RIVER4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00721 | 107.0226 | P13:345-138:AEPW:C-RIVER7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00711 | 107.0226 | P13:345-138:AEPW:C-RIVER7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00715 | 105.678 | FOREST HILL - MAUD 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00615 | 105.3931 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00804 | 102.238 | CLEVELAND - G15066_T 345.00 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00734 | 102.0836 | LTRIVRT2 69.000 - MAUD 69KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00798 | 101.8194 | MAUD (MAUD1) 138/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00804 | 101.5163 | G15066_T 345.00 - SOONER 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00734 | 101.0527 | HAMMETT TAP - HAMMETT2 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00783 | 100.9855 | EARLSBORO - FIXICO 69KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00849 | 100.9307 | DBL-THIS-WWRD |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00783 | 100.8824 | P12:069:OKGE:3TERM34 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00839 | 100.8203 | P12:345:AEPW-OKGE:R.S.S.-7:REDBUD7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00734 | 100.5373 | LTRIVRT2 69.000 - WEWOKA TAP 69KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00757 | 100.451 | FRANKLIN - FRANKLIN SW 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00734 | 100.228 | HAMMETT2 - MEEKER 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00724 | 100.2207 | ETNA - PARK LANE 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00776 | 100.0525 | P12:138:AEPW:MCALEST4:C-RIVER4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00776 | 100.0525 | P13:345-138:AEPW:C-RIVER7 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00765 | 100.0525 | P13:345-138:AEPW:C-RIVER7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00701 | 99.9976 | PARK LANE - SEMINOLE 138KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|--|
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.2 | 0.00575 | 134.3826 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 31.1 | 0.00585 | 117.7343 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 31.2 | 0.00624 | 109.7533 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.6 | 0.00609 | 100.1218 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_1 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.2 | 0.00585 | 120.5446 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_1 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.5 | 0.00575 | 114.7946 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_1 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.3 | 0.00624 | 112.8268 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.00575 | 126.1856 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 30.9 | 0.00585 | 112.0238 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 31.1 | 0.00624 | 103.9969 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.08241 | 113.7614 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.08241 | 113.3891 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07668 | 107.2987 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.08212 | 106.4922 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.08212 | 106.2957 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.4 | 0.08629 | 105.0238 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.08629 | 104.7625 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.06784 | 103.2353 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.06784 | 103.0488 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07668 | 102.4652 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07668 | 102.1209 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.06641 | 101.3873 | DBL-TGA-MATT |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.07647 | 101.1432 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.06641 | 101.07 | DBL-TGA-MATT |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07647 | 100.9399 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.08476 | 100.7601 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.08476 | 100.6489 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07835 | 100.3042 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | GYPSUM - RUSSELL 69KV CKT 1 | 25.6 | 0.00575 | 110.5791 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | HARPER - MILAN TAP 138KV CKT 1 | 142.5 | 0.02301 | 154.2693 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | HARPER - MILAN TAP 138KV CKT 1 | 142.5 | 0.02301 | 145.1465 | DBL-THIS-G1524 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.02384 | 138.2897 | DBL-G1524-WICH |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.02384 | 129.1353 | DBL-THIS-G1524 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | HARPER - MILAN TAP 138KV CKT 1 | 142.8 | 0.01882 | 111.9301 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | HARPER - MILAN TAP 138KV CKT 1 | 135.9 | 0.02021 | 109.3708 | DBL-G1524-WICH |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.01582 | 109.1008 | DBL-G1524-WICH |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | HARPER - MILAN TAP 138KV CKT 1 | 142.8 | 0.01882 | 104.087 | DBL-THIS-G1524 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | HARPER - MILAN TAP 138KV CKT 1 | 135.2 | 0.01982 | 101.4107 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | HARPER - MILAN TAP 138KV CKT 1 | 135.9 | 0.02021 | 101.2766 | DBL-THIS-G1524 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.01582 | 101.2741 | DBL-THIS-G1524 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | HITCHLAND INTERCHANGE - TEXAS COUNTY INTERCHANGE 115KV CKT 1 | 159.6 | 0.00561 | 102.4426 | P12:115:SPS:W09.2.HITCH.TXSCO |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | HITCHLAND INTERCHANGE - TEXAS COUNTY INTERCHANGE 115KV CKT 1 | 159.7 | 0.0059 | 100.1997 | P12:115:SPS:W09.2.HITCH.TXSCO |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1 | 156.4 | 0.07229 | 107.118 | MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1 | 156.4 | 0.07229 | 106.7983 | OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 96.5 | 0.01514 | 126.6062 | BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 97.5 | 0.01511 | 113.6131 | BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 96.5 | 0.01514 | 111.8911 | P12:115:SPS:V98.1.CUNN.LE-SNANDR |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 96.5 | 0.01514 | 111.6839 | LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 96.5 | 0.01514 | 111.5803 | LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 97.2 | 0.01543 | 104.3164 | BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 97.5 | 0.01511 | 100.0747 | P12:115:SPS:V98.1.CUNN.LE-SNANDR |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 82.6 | 0.01547 | 114.8891 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 83.1 | 0.01544 | 103.8463 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1 | 174.6 | 0.0186 | 106.0828 | DENVER CITY INTERCHANGE S. - SHELL C2 SUB 115KV CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1 | 174.6 | 0.0186 | 100.47 | SHELL C2 SUB - SHELL C3 TAP 115KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01179 | 121.9139 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01179 | 120.5874 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01144 | 120.0532 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01144 | 119.7585 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0119 | 119.7234 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01179 | 118.8925 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01151 | 118.523 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0119 | 118.4697 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01621 | 118.4605 | CIMARRON - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01151 | 118.228 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01179 | 117.0502 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0119 | 116.8473 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01634 | 116.711 | CIMARRON - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0119 | 115.0036 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01621 | 114.1127 | GRACEMONT - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01634 | 112.36 | GRACEMONT - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01282 | 107.8189 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01239 | 107.5697 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01294 | 107.3147 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01239 | 106.3179 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01282 | 105.6818 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01206 | 105.6379 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01206 | 105.3433 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01071 | 105.2767 | COMANCHE TAP - OMPA-DUNCAN 840 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01294 | 105.1761 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01239 | 104.5506 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00605 | 103.9275 | P12:138:AEPW:S.W.S.-4:L.E.S.-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01071 | 103.287 | P12:138:AEPW:DUNCAN-4:L.E.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0108 | 103.0729 | COMANCHE TAP - OMPA-DUNCAN 840 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01071 | 102.7711 | P12:138:AEPW-OMPA:DUNCAN-4:OMDUNCN4 |
| 25SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01239 | 102.636 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01089 | 101.6015 | DBL-TGA-MATT |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0108 | 101.3029 | P12:138:AEPW:DUNCAN-4:L.E.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00616 | 101.06 | P12:138:AEPW:S.W.S.-4:L.E.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0108 | 100.7867 | P12:138:AEPW-OMPA:DUNCAN-4:OMDUNCN4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01099 | 100.2804 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00987 | 100.2216 | ANADARKO - POCASSETT 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01089 | 100.2013 | DBL-G1151-TGA |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0 | 183.0641 | NORTON 6 230.00 - PLEASANT HILL 230KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0 | 170.6515 | NORTON 6 230.00 - PLEASANT HILL 230KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01376 | 159.8551 | P12:345:SPS:J15.1.XRDS.TOLK |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.011 | 158.1852 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.011 | 158.1852 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.011 | 158.1852 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 158.0594 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 158.0594 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 158.0594 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 157.7379 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 157.7379 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 157.7379 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01201 | 157.509 | DEAF SMITH COUNTY INTERCHANGE - G15039_T 230.00 230KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.011 | 157.3444 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.011 | 157.3444 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.011 | 157.3421 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01344 | 156.8475 | P12:345:SPS:J15.1.XRDS.TOLK |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01332 | 155.4857 | P12:345:SPS:J15.1.XRDS.TOLK |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01176 | 155.4499 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01213 | 155.0883 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 155.0712 | FARMERS ELECTRIC REC-TUCUMCARI - LOPEZ 3115.00 115KV CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 155.0712 | P12:115:SPS:W59.1.LOPEZ.CMPBLL |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01154 | 154.7311 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01037 | 154.4542 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01037 | 154.4542 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01037 | 154.4542 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01037 | 154.0878 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01037 | 154.0878 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01037 | 154.0878 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01237 | 153.7989 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01201 | 153.1757 | G15039_T 230.00 - PLANT X STATION 230KV CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 152.7379 | NICHOLS STATION 230/22.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 152.7142 | NICHOLS STATION 230/22.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01237 | 152.4521 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01202 | 152.3684 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01243 | 152.2751 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.0127 | 150.8475 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01312 | 150.6112 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0138 | 149.9327 | P12:345:SPS:J15.1.XRDS.TOLK |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01213 | 149.7011 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01219 | 148.885 | DEAF SMITH COUNTY INTERCHANGE - G15039_T 230.00 230KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0117 | 148.769 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01053 | 148.4921 | CIMARRON - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01053 | 148.4921 | CIMARRON - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01053 | 148.4921 | CIMARRON - MINCO 345KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01198 | 148.3185 | P12:230:SPS:K51.1.OASIS.RSVLT |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01053 | 147.7899 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01053 | 147.7899 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01053 | 147.7899 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.0126 | 147.4566 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.01073 | 147.32 | P12:345:SPS:J15.1.XRDS.TOLK |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01204 | 146.8495 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0126 | 145.6487 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01172 | 145.5627 | P12:230:SPS:K18.1.RSVLT_S.TOLK |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01172 | 145.5627 | Roosevelt County Interchange SOUTH - Roosevelt County Interchange SWITCH #4K33 230KV CKT @1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01204 | 145.5161 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.0117 | 145.2212 | P12:230:SPS:K30.2.RSVLT_N.TOLK |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01166 | 144.7595 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01219 | 144.5516 | G15039_T 230.00 - PLANT X STATION 230KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01197 | 144.1662 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.00999 | 143.8023 | P12:230:SPS:K38.1.CHAVES.EDDY_N |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0117 | 143.4357 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01187 | 142.8092 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00797 | 141.7995 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00797 | 141.7995 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00797 | 141.7995 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01037 | 141.4542 | FARMERS ELECTRIC REC-TUCUMCARI - LOPEZ 3115.00 115KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01037 | 141.4542 | P12:115:SPS:W59.1.LOPEZ.CMPBLL |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00797 | 141.0736 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00797 | 141.0736 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00797 | 141.0736 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 141.0712 | BASE CASE |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01233 | 140.9181 | DEAF SMITH COUNTY INTERCHANGE - G15039_T 230.00 230KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01221 | 140.8897 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01037 | 140.1209 | NICHOLS STATION 230/22.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01037 | 140.0972 | NICHOLS STATION 230/22.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0101 | 140.057 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0101 | 140.057 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0101 | 140.057 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0101 | 139.9978 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0101 | 139.9978 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0101 | 139.9978 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.0099 | 139.5683 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01221 | 139.5564 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01278 | 139.0246 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01182 | 138.7974 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01261 | 137.9844 | P12:345:SPS:J15.1.XRDS.TOLK |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01215 | 137.5422 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01187 | 137.4759 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01147 | 137.0479 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01233 | 136.5848 | G15039_T 230.00 - PLANT X STATION 230KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00897 | 136.119 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01166 | 135.4262 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00954 | 135.3531 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00913 | 134.8714 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01053 | 134.4921 | FARMERS ELECTRIC REC-TUCUMCARI - LOPEZ 3115.00 115KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01053 | 134.4921 | P12:115:SPS:W59.1.LOPEZ.CMPBLL |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.01065 | 134.3015 | Norton Switching Station - PLEASANT HILL 115KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01166 | 134.0929 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01129 | 134.0053 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00919 | 133.9274 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01053 | 133.8254 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01053 | 133.7994 | NICHOLS STATION 230/22.0KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.01023 | 133.4628 | P12:345:SPS:J15.1.XRDS.TOLK |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00886 | 133.4386 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00913 | 133.1992 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.011 | 132.2592 | BASE CASE |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.0091 | 132.1768 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01147 | 131.7146 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01229 | 131.5753 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00897 | 131.1022 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 131.0712 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01292 | 131.0577 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01187 | 130.4759 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00783 | 130.1864 | P12:230:SPS:K65.1.OASIS.SANJN |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 130.0712 | CROSSROADS 7345.00 - G08-22 345.00 345KV CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01016 | 130.0712 | G08-22 345.00 345/34.5KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01173 | 129.4428 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00945 | 128.8775 | DEAF SMITH COUNTY INTERCHANGE - G15039_T 230.00 230KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01037 | 128.7876 | BASE CASE |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00777 | 128.0349 | DBL-G1114-WWRD |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00777 | 128.0349 | DBL-G1114-WWRD |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00777 | 128.0349 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0118 | 127.7927 | DEAF SMITH COUNTY INTERCHANGE - G15039_T 230.00 230KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00777 | 127.3137 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00777 | 127.3137 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00777 | 127.3137 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01104 | 126.9461 | P12:230:SPS:K51.1.OASIS.RSVLT |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0101 | 125.7237 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0101 | 125.6834 | NICHOLS STATION 230/22.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00707 | 125.1313 | P12:230:SPS:K38.1.CHAVES.EDDY_N |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00888 | 123.0945 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01053 | 122.8254 | BASE CASE |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.0093 | 122.2407 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00862 | 121.9985 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.01044 | 121.5426 | Norton Switching Station - PLEASANT HILL 115KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00888 | 121.4223 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00873 | 118.3291 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00889 | 117.7362 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00921 | 116.4411 | DEAF SMITH COUNTY INTERCHANGE - G15039_T 230.00 230KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0101 | 114.7237 | BASE CASE |
| 16WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00797 | 114.0403 | BASE CASE |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00777 | 112.3158 | P12:115:SPS:W51.1.NEWHART.CASTRO |
| 20WP | 06ALL | 0 | | G15_099_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00777 | 100.2757 | BASE CASE |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 156.4 | 0.02469 | 105.0211 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 157.6 | 0.02694 | 103.3076 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 156.7 | 0.02713 | 102.697 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.3 | 0.01066 | 107.0681 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 68 | 0.01066 | 106.113 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 66.7 | 0.01045 | 105.4602 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.5 | 0.01045 | 104.5066 | P12:230:AEPW:ELKCITY6:SWEETWT6 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.6 | 0.00932 | 116.6757 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.9 | 0.00943 | 113.0103 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 333.7 | 0.00987 | 108.361 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.1 | 0.01045 | 103.8338 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 334.4 | 0.00995 | 100.8093 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_1 | SILOAM CITY - SILOAM SPRINGS TAP 161KV CKT 1 | 285.9 | 0.00594 | 100.7771 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.8 | 0.00801 | 135.0462 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.8 | 0.00801 | 135.0462 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.00801 | 135.0044 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.00801 | 135.0044 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.00804 | 131.5064 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.00804 | 131.5064 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.00804 | 131.3121 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.00804 | 131.3121 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00792 | 121.8599 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00792 | 121.8599 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00792 | 121.7409 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00792 | 121.7409 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.1 | 0.00751 | 120.2566 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.1 | 0.00751 | 120.2566 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.00751 | 119.9439 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.00751 | 119.9439 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.00847 | 117.5225 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.00847 | 117.5225 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00847 | 117.5016 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00847 | 117.5016 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.00851 | 114.6333 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.00851 | 114.6333 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.00851 | 114.3419 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.00851 | 114.3419 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.00802 | 135.1245 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.00802 | 135.1245 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.8 | 0.00802 | 135.047 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.8 | 0.00802 | 135.047 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.7 | 0.00804 | 131.5064 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.7 | 0.00804 | 131.5064 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.00804 | 131.4313 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.00804 | 131.4313 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00793 | 121.9798 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00793 | 121.9798 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00793 | 121.7417 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00793 | 121.7417 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.1 | 0.00751 | 120.2566 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.1 | 0.00751 | 120.2566 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.00751 | 119.9439 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.00751 | 119.9439 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.00847 | 117.5225 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.00847 | 117.5225 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00847 | 117.5016 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00847 | 117.5016 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.00851 | 114.6333 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.00851 | 114.6333 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.6 | 0.00851 | 114.4787 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.6 | 0.00851 | 114.4787 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_1 | TUPELO - TUPELO TAP 138KV CKT 1 | 140.6 | 0.01266 | 100.5682 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_1 | WALKEMEYER - WALKTAP3 115.00 115KV CKT 1 | 301.6 | 0.04615 | 105.8941 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | TO->FROM | G15_099_1 | WALKEMEYER - WALKTAP3 115.00 115KV CKT 1 | 301.6 | 0.04615 | 101.4511 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 277.8 | 0.04615 | 115.0384 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.1 | 0.04615 | 114.5025 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 277.8 | 0.04615 | 110.2148 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 0 | FROM->TO | G15_099_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.1 | 0.04615 | 109.7014 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.8 | 0.05501 | 103.6118 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 280 | 0.05501 | 103.5378 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.9 | 0.05283 | 101.9117 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.9 | 0.05283 | 101.9117 | P12:345:SPS:J04.1.FINN.HOLC(534) |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 226.2 | 0.04499 | 108.3971 | CIMARRON - MINCO 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01049 | 149.2071 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01286 | 148.7879 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01049 | 144.7428 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01286 | 144.2733 | DBL-BVR-G1114 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.6 | 0.0132 | 123.2558 | DBL-G1114-WWRD |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.6 | 0.0132 | 118.9639 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00827 | 114.7035 | DBL-OTA-BVR |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00867 | 114.0973 | P12:345:SPS:FINNEY-HITCHLAND |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00867 | 114.0973 | P12:345:SPS:J07.1.FINN.HITCH |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00867 | 114.0973 | P12:345:SPS:WALKEMEYER-HITCHLAND |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01033 | 113.6195 | DBL-OTA-BVR |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00827 | 112.2481 | DBL-HTCH-OTA |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.9 | 0.01427 | 112.1816 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01033 | 111.1364 | DBL-HTCH-OTA |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00811 | 109.321 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01023 | 107.9601 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.9 | 0.01427 | 107.704 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01023 | 106.6057 | FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.00986 | 105.8692 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00752 | 105.4329 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00811 | 103.9639 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.00919 | 103.2788 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00778 | 101.6794 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00735 | 100.9416 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00735 | 100.9416 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.00986 | 100.6773 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00778 | 100.5633 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00729 | 100.2625 | CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00729 | 100.2625 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00729 | 100.2625 | P13:138-230:AEPW:ELKCTY-4 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.4 | 0.01286 | 110.2773 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | TO->FROM | G15_099_2 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.7 | 0.01049 | 108.6839 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.4 | 0.01286 | 107.0722 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_2 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.7 | 0.01049 | 105.4941 | DBL-BVR-G1114 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | CASTRO COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1 | 173.7 | 0.0135 | 102.6244 | P12:115:SPS:W51.1.NEWHART.CASTRO |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | CASTRO COUNTY INTERCHANGE - NEWHART 115KV CKT 1 | 169.8 | 0.01086 | 104.1644 | P12:115:SPS:T04.1.DFSMTH.CASTRO |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | CASTRO COUNTY INTERCHANGE - NEWHART 115KV CKT 1 | 170.3 | 0.01159 | 101.1878 | P12:115:SPS:T04.1.DFSMTH.CASTRO |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.01286 | 120.1138 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.01286 | 116.9985 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.3 | 0.01049 | 115.4662 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.3 | 0.01049 | 112.3558 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01286 | 124.4029 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01286 | 121.3164 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01049 | 118.5876 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01049 | 115.5012 | DBL-BVR-G1114 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.0132 | 108.2237 | DBL-G1114-WWRD |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.0132 | 105.1421 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01033 | 100.3602 | DBL-OTA-BVR |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|---|
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 141.8 | 0.02301 | 136.6951 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 141.8 | 0.02301 | 127.5273 | DBL-THIS-G1524 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.7 | 0.02384 | 123.6809 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.8 | 0.02625 | 117.9018 | DBL-G1524-WICH |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.7 | 0.02384 | 114.4307 | DBL-THIS-G1524 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.8 | 0.02625 | 107.9578 | DBL-THIS-G1524 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.02301 | 190.391 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.02301 | 178.1037 | DBL-THIS-G1524 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.7 | 0.02055 | 176.2617 | DBL-G1524-WICH |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109 | 0.02444 | 175.9039 | DBL-G1524-WICH |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.2 | 0.02384 | 169.032 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.7 | 0.02625 | 164.8241 | DBL-G1524-WICH |
| 20L | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.7 | 0.02055 | 162.9527 | DBL-THIS-G1524 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109 | 0.02444 | 162.5094 | DBL-THIS-G1524 |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.2 | 0.02384 | 156.9248 | DBL-THIS-G1524 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.7 | 0.02625 | 151.7606 | DBL-THIS-G1524 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 107 | 0.02574 | 145.4463 | DBL-G1524-WICH |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 107 | 0.02574 | 131.6145 | DBL-THIS-G1524 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.0123 | 104.2281 | DBL-TGA-MATT |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01193 | 102.3129 | G1524G1525 345.00 - THISTLE7 345.00 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01193 | 102.3129 | G1524G1525 345.00 - THISTLE7 345.00 345KV CKT 2 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.0123 | 100.1638 | DBL-G1151-TGA |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01908 | 114.5299 | ONEY - WASHITA 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03413 | 112.6728 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01908 | 111.6841 | BINGER NIJECT - ONEY 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01914 | 111.4373 | ONEY - WASHITA 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03404 | 110.0045 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.02951 | 109.407 | DBL-TGA-MATT |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01914 | 108.9191 | BINGER NIJECT - ONEY 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03128 | 108.0324 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01908 | 107.4485 | BINGER NIJECT - SICKLES 138KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02749 | 106.9945 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.02943 | 106.8759 | DBL-TGA-MATT |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.03269 | 106.3885 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03119 | 106.2968 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.03396 | 105.7494 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.02951 | 105.2321 | DBL-G1151-TGA |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01914 | 104.943 | BINGER NIJECT - SICKLES 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.02951 | 103.973 | DBL-WWRD-G1151 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02385 | 102.9439 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.02943 | 102.7065 | DBL-G1151-TGA |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03128 | 102.3995 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02818 | 101.9833 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.02943 | 101.4491 | DBL-WWRD-G1151 |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 187 | 0.03491 | 100.9511 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.02941 | 100.9061 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03119 | 100.6714 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01908 | 100.1685 | HYDRO - SICKLES 138KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_2 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00587 | 112.5889 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|---|
| 16WP | 06ALL | 0 | TO->FROM | G15_099_2 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00617 | 109.0172 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_2 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00587 | 108.1208 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_2 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00617 | 104.5491 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.4 | 0.00587 | 120.7105 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.3 | 0.00617 | 117.2052 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.4 | 0.00587 | 116.2801 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.3 | 0.00617 | 112.5541 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.006 | 110.0667 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00596 | 110.0594 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.006 | 104.4256 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00596 | 104.4184 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.4 | 0.01179 | 100.2527 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | DUNCAN - TOSCO 69KV CKT 1 | 47.6 | 0.00587 | 126.5058 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | DUNCAN - TOSCO 69KV CKT 1 | 47.5 | 0.00617 | 122.6065 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | DUNCAN - TOSCO 69KV CKT 1 | 47.6 | 0.00587 | 121.884 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | DUNCAN - TOSCO 69KV CKT 1 | 38.9 | 0.006 | 119.6041 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | DUNCAN - TOSCO 69KV CKT 1 | 39 | 0.00596 | 119.2901 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | DUNCAN - TOSCO 69KV CKT 1 | 47.5 | 0.00617 | 117.9749 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | DUNCAN - TOSCO 69KV CKT 1 | 38.9 | 0.006 | 113.9486 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | DUNCAN - TOSCO 69KV CKT 1 | 39 | 0.00596 | 113.6491 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | DUNCAN - TOSCO 69KV CKT 1 | 48 | 0.00606 | 105.4797 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | DUNCAN - TOSCO 69KV CKT 1 | 48 | 0.00606 | 100.8964 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | EARLSBORO 4138.00 - FIXICO TAP 138KV CKT 1 | 96.6 | 0.00573 | 100.2141 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00573 | 110.7287 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00742 | 108.6874 | MAUD (MAUD1) 138/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00721 | 107.0226 | P12:138:AEPW:MCALEST4:C-RIVER4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00721 | 107.0226 | P13:345-138:AEPW:C-RIVER7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00711 | 107.0226 | P13:345-138:AEPW:C-RIVER7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00715 | 105.678 | FOREST HILL - MAUD 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00615 | 105.3931 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00804 | 102.238 | CLEVELAND - G15066_T 345.00 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00734 | 102.0836 | LTRIVRT2 69.000 - MAUD 69KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00798 | 101.8194 | MAUD (MAUD1) 138/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00804 | 101.5163 | G15066_T 345.00 - SOONER 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00734 | 101.0527 | HAMMETT TAP - HAMMETT2 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00783 | 100.9855 | EARLSBORO - FIXICO 69KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00849 | 100.9307 | DBL-THIS-WWRD |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00783 | 100.8824 | P12:069:OKGE:3TERM34 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00839 | 100.8203 | P12:345:AEPW-OKGE:R.S.S.-7:REDBUD7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00734 | 100.5373 | LTRIVRT2 69.000 - WEWOKA TAP 69KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00757 | 100.451 | FRANKLIN - FRANKLIN SW 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00734 | 100.228 | HAMMETT2 - MEEKER 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00724 | 100.2207 | ETNA - PARK LANE 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00776 | 100.0525 | P12:138:AEPW:MCALEST4:C-RIVER4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00776 | 100.0525 | P13:345-138:AEPW:C-RIVER7 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00765 | 100.0525 | P13:345-138:AEPW:C-RIVER7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00701 | 99.9976 | PARK LANE - SEMINOLE 138KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.2 | 0.00575 | 134.3826 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 31.1 | 0.00585 | 117.7343 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 31.2 | 0.00624 | 109.7533 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.6 | 0.00609 | 100.1218 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_099_2 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.2 | 0.00585 | 120.5446 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_099_2 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.5 | 0.00575 | 114.7946 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_099_2 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.3 | 0.00624 | 112.8268 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.00575 | 126.1856 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 30.9 | 0.00585 | 112.0238 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 31.1 | 0.00624 | 103.9969 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.08241 | 113.7614 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.08241 | 113.3891 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07668 | 107.2987 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.08212 | 106.4922 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.08212 | 106.2957 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.4 | 0.08629 | 105.0238 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.08629 | 104.7625 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.06784 | 103.2353 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.06784 | 103.0488 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07668 | 102.4652 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07668 | 102.1209 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.06641 | 101.3873 | DBL-TGA-MATT |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.07646 | 101.143 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.06641 | 101.07 | DBL-TGA-MATT |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07646 | 100.9397 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.08476 | 100.7601 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.08476 | 100.6489 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07835 | 100.3042 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | GYPSUM - RUSSELL 69KV CKT 1 | 25.6 | 0.00575 | 110.5791 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | HARPER - MILAN TAP 138KV CKT 1 | 142.5 | 0.02301 | 154.2693 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | HARPER - MILAN TAP 138KV CKT 1 | 142.5 | 0.02301 | 145.1465 | DBL-THIS-G1524 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.02384 | 138.2897 | DBL-G1524-WICH |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.02384 | 129.1353 | DBL-THIS-G1524 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | HARPER - MILAN TAP 138KV CKT 1 | 142.8 | 0.01882 | 111.9301 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | HARPER - MILAN TAP 138KV CKT 1 | 135.9 | 0.02021 | 109.3708 | DBL-G1524-WICH |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.01582 | 109.1008 | DBL-G1524-WICH |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | HARPER - MILAN TAP 138KV CKT 1 | 142.8 | 0.01882 | 104.087 | DBL-THIS-G1524 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | HARPER - MILAN TAP 138KV CKT 1 | 135.2 | 0.01982 | 101.4107 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | HARPER - MILAN TAP 138KV CKT 1 | 135.9 | 0.02021 | 101.2766 | DBL-THIS-G1524 |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.01582 | 101.2741 | DBL-THIS-G1524 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | HITCHLAND INTERCHANGE - TEXAS COUNTY INTERCHANGE 115KV CKT 1 | 159.6 | 0.00561 | 102.4426 | P12:115:SPS:W09.2.HITCH.TXSCO |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | HITCHLAND INTERCHANGE - TEXAS COUNTY INTERCHANGE 115KV CKT 1 | 159.7 | 0.0059 | 100.1997 | P12:115:SPS:W09.2.HITCH.TXSCO |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1 | 156.4 | 0.0468 | 105.9609 | MADDOX STATION - SANGER SWITCHING STATION 115KV CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | HOBBS INTERCHANGE - MILLEN SUB 115KV CKT 1 | 156.4 | 0.0468 | 105.6412 | OXY PERMIAN SUB - SANGER SWITCHING STATION 115KV CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 96.5 | 0.01425 | 126.5407 | BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 97.5 | 0.01422 | 113.5483 | BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 96.5 | 0.01425 | 111.8256 | P12:115:SPS:V98.1.CUNN.LE-SNANDR |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 96.5 | 0.01425 | 111.6184 | LE-TXACO_TP3115.00 - LEA COUNTY REC-SAN ANDRES INTERCHANGE 115KV CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 96.5 | 0.01425 | 111.5148 | LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 97.2 | 0.01458 | 104.2543 | BUCKEYE TAP - LE-TXACO_TP3115.00 115KV CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 82.6 | 0.01585 | 114.9217 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | LEA COUNTY REC-SAN ANDRES INTERCHANGE 115/69KV TRANSFORMER CKT 1 | 83.1 | 0.01582 | 103.8787 | LEA COUNTY REC-LOVINGTON INTERCHANGE 115/69KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1 | 174.6 | 0.01457 | 105.9189 | DENVER CITY INTERCHANGE S. - SHELL C2 SUB 115KV CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | LE-WEST_SUB3115.00 - LEA COUNTY REC-LOVINGTON INTERCHANGE 115KV CKT 1 | 174.6 | 0.01457 | 100.3061 | SHELL C2 SUB - SHELL C3 TAP 115KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01179 | 121.9139 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01179 | 120.5874 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01144 | 120.0532 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01144 | 119.7585 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0119 | 119.7234 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01179 | 118.8925 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01151 | 118.523 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0119 | 118.4697 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01621 | 118.4605 | CIMARRON - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01151 | 118.228 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01179 | 117.0502 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0119 | 116.8473 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01634 | 116.711 | CIMARRON - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0119 | 115.0036 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01621 | 114.1127 | GRACEMONT - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01634 | 112.36 | GRACEMONT - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01282 | 107.8189 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01239 | 107.5697 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01293 | 107.3142 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01239 | 106.3179 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01282 | 105.6818 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01206 | 105.6379 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01206 | 105.3433 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01071 | 105.2767 | COMANCHE TAP - OMPA-DUNCAN 840 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01293 | 105.1755 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01239 | 104.5506 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00605 | 103.9275 | P12:138:AEPW:S.W.S.-4:L.E.S.-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01071 | 103.287 | P12:138:AEPW:DUNCAN-4:L.E.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0108 | 103.0729 | COMANCHE TAP - OMPA-DUNCAN 840 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01071 | 102.7711 | P12:138:AEPW-OMPA:DUNCAN-4:OMDUNCN4 |
| 25SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01239 | 102.636 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01089 | 101.6015 | DBL-TGA-MATT |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0108 | 101.3029 | P12:138:AEPW:DUNCAN-4:L.E.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00616 | 101.06 | P12:138:AEPW:S.W.S.-4:L.E.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0108 | 100.7867 | P12:138:AEPW-OMPA:DUNCAN-4:OMDUNCN4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01099 | 100.2804 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00987 | 100.2216 | ANADARKO - POCASSETT 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01089 | 100.2013 | DBL-G1151-TGA |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0 | 183.0688 | NORTON 6 230.00 - PLEASANT HILL 230KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0 | 170.6515 | NORTON 6 230.00 - PLEASANT HILL 230KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01377 | 159.8575 | P12:345:SPS:J15.1.XRDS.TOLK |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01101 | 158.1876 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01101 | 158.1876 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01101 | 158.1876 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 158.0617 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 158.0617 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 158.0617 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 157.7402 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 157.7402 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 157.7402 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01202 | 157.5114 | DEAF SMITH COUNTY INTERCHANGE - G15039_T 230.00 230KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01101 | 157.3444 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01101 | 157.3444 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01101 | 157.3444 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01345 | 156.8498 | P12:345:SPS:J15.1.XRDS.TOLK |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01334 | 155.4905 | P12:345:SPS:J15.1.XRDS.TOLK |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01177 | 155.4522 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01214 | 155.0907 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 155.0736 | FARMERS ELECTRIC REC-TUCUMCARI - LOPEZ 3115.00 115KV CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 155.0736 | P12:115:SPS:W59.1.LOPEZ.CMPBLL |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01155 | 154.7335 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01038 | 154.4566 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01038 | 154.4566 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01038 | 154.4566 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01038 | 154.0878 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01038 | 154.0878 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01038 | 154.0878 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01238 | 153.8013 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01202 | 153.1781 | G15039_T 230.00 - PLANT X STATION 230KV CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 152.7402 | NICHOLS STATION 230/22.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 152.7166 | NICHOLS STATION 230/22.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01238 | 152.4545 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01203 | 152.3708 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01244 | 152.2775 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.0127 | 150.8475 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01313 | 150.6136 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01383 | 149.9398 | P12:345:SPS:J15.1.XRDS.TOLK |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01214 | 149.7035 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01219 | 148.885 | DEAF SMITH COUNTY INTERCHANGE - G15039_T 230.00 230KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01171 | 148.7714 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01055 | 148.4968 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01055 | 148.4968 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01055 | 148.4968 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01199 | 148.3208 | P12:230:SPS:K51.1.OASIS.RSVLT |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01055 | 147.7947 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01055 | 147.7947 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01055 | 147.7947 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01261 | 147.459 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.01076 | 147.3271 | P12:345:SPS:J15.1.XRDS.TOLK |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01204 | 146.8495 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01261 | 145.651 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01173 | 145.5651 | P12:230:SPS:K18.1.RSVLT_S.TOLK |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01173 | 145.5651 | Roosevelt County Interchange SOUTH - Roosevelt County Interchange SWITCH #4K33 230KV CKT @1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01204 | 145.5161 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01171 | 145.2236 | P12:230:SPS:K30.2.RSVLT_N.TOLK |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01167 | 144.7619 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01219 | 144.5516 | G15039_T 230.00 - PLANT X STATION 230KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01197 | 144.1662 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01 | 143.8047 | P12:230:SPS:K38.1.CHAVES.EDDY_N |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01171 | 143.438 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01189 | 142.8139 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00799 | 141.8042 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00799 | 141.8042 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00799 | 141.8042 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01038 | 141.4566 | FARMERS ELECTRIC REC-TUCUMCARI - LOPEZ 3115.00 115KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01038 | 141.4566 | P12:115:SPS:W59.1.LOPEZ.CMPBLL |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00799 | 141.0807 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00799 | 141.0807 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00799 | 141.0807 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 141.0736 | BASE CASE |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01236 | 140.9252 | DEAF SMITH COUNTY INTERCHANGE - G15039_T 230.00 230KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01224 | 140.8968 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01038 | 140.1233 | NICHOLS STATION 230/22.0KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01038 | 140.0996 | NICHOLS STATION 230/22.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01012 | 140.0617 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01012 | 140.0617 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01012 | 140.0617 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01012 | 140.0049 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01012 | 140.0049 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01012 | 140.0049 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00992 | 139.573 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01224 | 139.5635 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01281 | 139.0317 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01185 | 138.8045 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01265 | 137.9938 | P12:345:SPS:J15.1.XRDS.TOLK |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01217 | 137.5469 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01189 | 137.4806 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01149 | 137.0526 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01236 | 136.5919 | G15039_T 230.00 - PLANT X STATION 230KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00898 | 136.1237 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01169 | 135.4333 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00956 | 135.3602 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00915 | 134.8762 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01055 | 134.4968 | FARMERS ELECTRIC REC-TUCUMCARI - LOPEZ 3115.00 115KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01055 | 134.4968 | P12:115:SPS:W59.1.LOPEZ.CMPBLL |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.01067 | 134.3063 | Norton Switching Station - PLEASANT HILL 115KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01169 | 134.1 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01132 | 134.0124 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00921 | 133.9322 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01055 | 133.8302 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01055 | 133.8065 | NICHOLS STATION 230/22.0KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.01023 | 133.4651 | P12:345:SPS:J15.1.XRDS.TOLK |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00888 | 133.4458 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00915 | 133.2039 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 20L | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01101 | 132.2616 | BASE CASE |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00912 | 132.1816 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01149 | 131.7193 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01231 | 131.58 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00898 | 131.107 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 131.0736 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01295 | 131.0648 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01189 | 130.4806 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00783 | 130.1864 | P12:230:SPS:K65.1.OASIS.SANJN |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 130.0736 | CROSSROADS 7345.00 - G08-22 345.00 345KV CKT 1 |
| 25SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01017 | 130.0736 | G08-22 345.00 345/34.5KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01175 | 129.4475 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00947 | 128.8846 | DEAF SMITH COUNTY INTERCHANGE - G15039_T 230.00 230KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01038 | 128.7899 | BASE CASE |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00778 | 128.0372 | DBL-G1114-WWRD |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00778 | 128.0372 | DBL-G1114-WWRD |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00778 | 128.0372 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01182 | 127.7974 | DEAF SMITH COUNTY INTERCHANGE - G15039_T 230.00 230KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00778 | 127.3161 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00778 | 127.3161 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00778 | 127.3161 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01108 | 126.9556 | P12:230:SPS:K51.1.OASIS.RSVLT |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01012 | 125.7284 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01012 | 125.6882 | NICHOLS STATION 230/22.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00708 | 125.1361 | P12:230:SPS:K38.1.CHAVES.EDDY_N |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00889 | 123.0969 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 17SP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01055 | 122.8302 | BASE CASE |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00931 | 122.2407 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00862 | 121.9985 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.01044 | 121.5426 | Norton Switching Station - PLEASANT HILL 115KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00889 | 121.4246 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00874 | 118.3315 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00889 | 117.7362 | AMARILLO SOUTH INTERCHANGE - G15031_T 230.00 230KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00922 | 116.4435 | DEAF SMITH COUNTY INTERCHANGE - G15039_T 230.00 230KV CKT 1 |
| 17G | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01012 | 114.7284 | BASE CASE |
| 16WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00799 | 114.045 | BASE CASE |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00778 | 112.3182 | P12:115:SPS:W51.1.NEWHART.CASTRO |
| 20WP | 06ALL | 0 | | G15_099_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00778 | 100.278 | BASE CASE |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 156.4 | 0.0247 | 105.0215 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 157.6 | 0.02694 | 103.3076 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 156.7 | 0.02713 | 102.697 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.3 | 0.01066 | 107.0681 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 68 | 0.01066 | 106.113 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 66.7 | 0.01046 | 105.4613 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.5 | 0.01046 | 104.5077 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.6 | 0.00932 | 116.6757 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.9 | 0.00943 | 113.0103 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 333.7 | 0.00987 | 108.361 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.1 | 0.01045 | 103.8338 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 334.4 | 0.00995 | 100.8093 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_099_2 | SILOAM CITY - SILOAM SPRINGS TAP 161KV CKT 1 | 285.9 | 0.00594 | 100.7771 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.8 | 0.00802 | 135.047 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.8 | 0.00802 | 135.047 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.00802 | 135.0053 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.00802 | 135.0053 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.00804 | 131.5064 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.00804 | 131.5064 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.00804 | 131.3121 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.00804 | 131.3121 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00793 | 121.8608 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00793 | 121.8608 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00793 | 121.7417 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00793 | 121.7417 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.1 | 0.00751 | 120.2566 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.1 | 0.00751 | 120.2566 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.00751 | 119.9439 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.00751 | 119.9439 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.00847 | 117.5225 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.00847 | 117.5225 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00847 | 117.5016 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00847 | 117.5016 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.00851 | 114.6333 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.00851 | 114.6333 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.00851 | 114.3419 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.00851 | 114.3419 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.00802 | 135.1245 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.00802 | 135.1245 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.8 | 0.00802 | 135.047 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.8 | 0.00802 | 135.047 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.7 | 0.00805 | 131.5072 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.7 | 0.00805 | 131.5072 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.00805 | 131.4321 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.00805 | 131.4321 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00793 | 121.9798 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00793 | 121.9798 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00793 | 121.7417 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00793 | 121.7417 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.1 | 0.00751 | 120.2566 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.1 | 0.00751 | 120.2566 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.00751 | 119.9439 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17G | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.00751 | 119.9439 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.00847 | 117.5225 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.00847 | 117.5225 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00847 | 117.5016 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00847 | 117.5016 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.00852 | 114.6342 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.00852 | 114.6342 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.6 | 0.00852 | 114.4796 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_099_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.6 | 0.00852 | 114.4796 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_2 | TUPELO - TUPELO TAP 138KV CKT 1 | 140.6 | 0.01266 | 100.5682 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_099_2 | WALKEMEYER - WALKTAP3 115.00 115KV CKT 1 | 301.6 | 0.04615 | 105.8941 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | TO->FROM | G15_099_2 | WALKEMEYER - WALKTAP3 115.00 115KV CKT 1 | 301.6 | 0.04615 | 101.4511 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 277.8 | 0.04615 | 115.0384 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.1 | 0.04615 | 114.5025 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 277.8 | 0.04615 | 110.2148 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 0 | FROM->TO | G15_099_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.1 | 0.04615 | 109.7014 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.8 | 0.05501 | 103.6118 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20SP | 06ALL | 0 | FROM->TO | G15_099_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 280 | 0.05501 | 103.5378 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.9 | 0.05284 | 101.912 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17SP | 06ALL | 0 | FROM->TO | G15_099_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.9 | 0.05284 | 101.912 | P12:345:SPS:J04.1.FINN.HOLC(534) |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|--------------------------------------|
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | 5SCROCKR 161.00 - FRANKS 161KV CKT 1 | 163 | 0.01021 | 107.8069 | FRANKS - HUBEN 345KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | 5SCROCKR 161.00 - FRANKS 161KV CKT 1 | 163 | 0.01027 | 104.4984 | FRANKS - HUBEN 345KV CKT 1 |
| 17SP | 09ALL | 0 | TO->FROM | G15_100 | 5SCROCKR 161.00 - FRANKS 161KV CKT 1 | 163 | 0.00977 | 100.9033 | FRANKS - HUBEN 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | 5SCROCKR 161.00 - LEBANON 161KV CKT 1 | 162.7 | 0.01027 | 101.3106 | FRANKS - HUBEN 345KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | 5SCROCKR 161.00 - LEBANON 161KV CKT 1 | 162.6 | 0.01021 | 100.446 | FRANKS - HUBEN 345KV CKT 1 |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.5 | 0.12674 | 129.4085 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12719 | 117.0483 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.7 | 0.12853 | 116.5258 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.7 | 0.12853 | 116.5258 | P12:115:WERE:KNOB-MKEC_115:: |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.7 | 0.12853 | 116.5258 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12699 | 115.1475 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12699 | 115.1475 | P12:115:WERE:KNOB-MKEC_115:: |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12699 | 115.1475 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.7 | 0.12853 | 113.1813 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12699 | 113.163 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12699 | 111.3989 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.7 | 0.12853 | 109.2794 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.08585 | 109.2635 | KELLY - S1399 5 161KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.7 | 0.08794 | 108.9775 | KELLY - S1399 5 161KV CKT 1 |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.12812 | 107.6044 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.12812 | 107.6044 | P12:115:WERE:KNOB-MKEC_115:: |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.12812 | 107.6044 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.5 | 0.08683 | 107.1252 | KELLY - S1399 5 161KV CKT 1 |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.5 | 0.12769 | 106.0358 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.5 | 0.12769 | 106.0358 | P12:115:WERE:KNOB-MKEC_115:: |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.5 | 0.12769 | 106.0358 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.12812 | 104.6177 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.5 | 0.12769 | 103.4129 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.12779 | 101.8084 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.12779 | 101.6978 | P12:115:WERE:KNOB-MKEC_115:: |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.12779 | 101.6978 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.12812 | 101.0779 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 91.4 | 0.12674 | 126.3773 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.12853 | 114.5678 | GREENLEAF - KNOB HILL 115KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|--|
| 17G | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.12853 | 114.5678 | P12:115:WERE:KNOB-MKEC_115:: |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.12853 | 114.5678 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.12699 | 114.2022 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.5 | 0.12719 | 114.1025 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.12699 | 114.0916 | P12:115:WERE:KNOB-MKEC_115:: |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.12699 | 114.0916 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.12699 | 112.1004 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.12853 | 111.2121 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.12699 | 110.3305 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.08585 | 108.2987 | KELLY - S1399 5 161KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.12853 | 107.2971 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.08794 | 106.9942 | KELLY - S1399 5 161KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.1 | 0.12812 | 105.854 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.1 | 0.12812 | 105.854 | P12:115:WERE:KNOB-MKEC_115:: |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.1 | 0.12812 | 105.854 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 91.4 | 0.08683 | 104.179 | KELLY - S1399 5 161KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 91.4 | 0.12769 | 103.0884 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 91.4 | 0.12769 | 102.979 | P12:115:WERE:KNOB-MKEC_115:: |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 91.4 | 0.12769 | 102.979 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.1 | 0.12812 | 102.8573 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 91.4 | 0.12769 | 100.3532 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | BLOOMFIELD - GAVINS POINT 115KV CKT 1 | 119.6 | 0.00595 | 107.5368 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | BLOOMFIELD - GAVINS POINT 115KV CKT 1 | 119.7 | 0.00604 | 106.7876 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | BLOOMFIELD - GAVINS POINT 115KV CKT 1 | 119.6 | 0.00761 | 103.6064 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | BLOOMFIELD - GAVINS POINT 115KV CKT 1 | 119.7 | 0.00581 | 102.2533 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00965 | 108.7073 | G14-074T 345.00 - TUCO INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.01186 | 106.9707 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.01203 | 106.919 | BORDER 7345.00 - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00965 | 106.6929 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.01203 | 104.5305 | BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00938 | 104.4919 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00938 | 103.8612 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00938 | 103.4031 | BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00938 | 102.8275 | CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00938 | 101.7313 | Golden Spread REC - Mustang Interchange 230 kV Generation Bus - MUSTANG STATION 230KV CKT @1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | CARLISLE INTERCHANGE - LP-DOUD_TP 3115.00 115KV CKT 1 | 159.9 | 0.00757 | 113.5762 | P12:230:SPS:K10.1.LUBBS.WOLFTH |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | CHARLOT5 161.00 - CROSSTOWN 161KV CKT 1 | 257 | 0.01212 | 105.8188 | CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | CHARLOT5 161.00 - CROSSTOWN 161KV CKT 1 | 257 | 0.01377 | 103.678 | P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | CHARLOT5 161.00 - CROSSTOWN 161KV CKT 1 | 257 | 0.01389 | 102.9443 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01212 | 119.204 | CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01377 | 117.0632 | P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01389 | 116.3295 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257.8 | 0.01388 | 108.2877 | P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257.8 | 0.01395 | 107.9806 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01424 | 105.412 | 87th STREET - STRANGER CREEK 345KV CKT 1 |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257.8 | 0.01274 | 104.472 | CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01197 | 100.8313 | GRAND AVENUE - GRAND AVENUE REACTOR 161KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01197 | 100.8313 | GRAND AVENUE - NAVY 161KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|---|
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01197 | 100.8313 | GRAND AVENUE REACTOR - NORTHEAST REACTOR 161KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01197 | 100.8313 | NORTHEAST - NORTHEAST REACTOR 161KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01197 | 100.8313 | P12:161:KCPL:NORTHEAST-REACTORS-GRAND |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.0141 | 100.1525 | 87th STREET - CRAIG 345KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | CLARKSVILLE - DARDANELLE 161KV CKT 1 | 192 | 0.00934 | 110.6358 | ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1 |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | CLARKSVILLE - DARDANELLE 161KV CKT 1 | 191.9 | 0.00959 | 104.1953 | ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | CLIFTON - CONCORDIA 115KV CKT 1 | 113.3 | 0.11831 | 102.0275 | P12:115:WERE:MARS-SSEN_115:: |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | CLIFTON - CONCORDIA 115KV CKT 1 | 113.3 | 0.11831 | 101.9393 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | CLIFTON - CONCORDIA 115KV CKT 1 | 113.3 | 0.11831 | 100.9684 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1 | 258.8 | 0.01131 | 113.0824 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1 | 258.8 | 0.01131 | 101.2586 | CHARLOT5 161.00 - CROSSTOWN 161KV CKT 1 |
| 17SP | 09ALL | 0 | TO->FROM | G15_100 | CROSSTOWN - NORTHEAST 161KV CKT 1 | 258 | 0.01486 | 105.3036 | P12:161:KCPL:NORTHEAST-GRANDAVIEW-NAVY |
| 17SP | 09ALL | 0 | TO->FROM | G15_100 | CROSSTOWN - NORTHEAST 161KV CKT 1 | 258 | 0.01493 | 105.113 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 334.2 | 0.01136 | 115.1895 | BASE CASE |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 336 | 0.01136 | 114.7212 | BASE CASE |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 334.8 | 0.01137 | 112.7134 | BASE CASE |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 334.6 | 0.01022 | 112.4705 | BASE CASE |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 336 | 0.01137 | 112.4299 | BASE CASE |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 336 | 0.01022 | 112.1209 | BASE CASE |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 334.6 | 0.01179 | 111.7498 | BASE CASE |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 336 | 0.01179 | 111.4032 | BASE CASE |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.6 | 0.01952 | 107.5591 | HOSKINS - RAUN 345KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01952 | 107.3196 | HOSKINS - RAUN 345KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.6 | 0.01442 | 105.4779 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 419 | 0.01934 | 105.3033 | HOSKINS - RAUN 345KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01442 | 105.2215 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01934 | 105.1478 | HOSKINS - RAUN 345KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.6 | 0.01408 | 104.6559 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 419 | 0.01476 | 104.5277 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01478 | 104.4339 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01408 | 104.4023 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01476 | 104.3741 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01478 | 104.2556 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01784 | 104.1396 | HOSKINS - RAUN 345KV CKT 1 |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.02004 | 104.0833 | HOSKINS - RAUN 345KV CKT 1 |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01517 | 104.0154 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01784 | 103.9621 | HOSKINS - RAUN 345KV CKT 1 |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.02004 | 103.8821 | HOSKINS - RAUN 345KV CKT 1 |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01346 | 103.8709 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01517 | 103.8382 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01346 | 103.6941 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.4 | 0.0114 | 102.6142 | BASE CASE |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 419 | 0.01432 | 102.5581 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.9 | 0.0114 | 102.5508 | BASE CASE |
| 17SP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.4 | 0.011 | 102.4508 | BASE CASE |
| 16WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01432 | 102.4091 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 17SP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.9 | 0.011 | 102.3876 | BASE CASE |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.6 | 0.01145 | 102.096 | RASMUSN - SIOUX CITY 230KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|----------|-----------------------|---|
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01478 | 101.9273 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01145 | 101.851 | RASMUSN - SIOUX CITY 230KV CKT 1 |
| 20WP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01478 | 101.7556 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.4 | 0.01132 | 100.3156 | BASE CASE |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.9 | 0.01132 | 100.2853 | BASE CASE |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01063 | 107.5328 | PLEASANT HILL (P HILL) 345/161/13.8KV TRANSFORMER CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.00917 | 106.7357 | ECKLES - SIBLEYPL 161.00 161KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01142 | 103.7137 | ORRICK - SIBLEYPL 161.00 161KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01065 | 103.2232 | LEEDS - WINCHESTER JUNCTION NORTH 161KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01142 | 102.9952 | ORRICK - RICHMOND 161KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01065 | 101.8312 | P12:161:KCPL:WINCHESTERJCTN-LOMEVISTAE-LEEDS-SWOPEN |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01065 | 101.7863 | LOMA VISTA EAST - WINCHESTER JUNCTION NORTH 161KV CKT 1 |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01142 | 101.3787 | P12:161:GMO:SIBLEYPLANT-ORRICK-RICHMOND-LEXINGTON |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63437 | 141.6234 | DBL-CLRK-THIS |
| 17G | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.8 | 0.62322 | 135.4667 | DBL-G1524-WICH |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.62368 | 135.1251 | DBL-G1524-WICH |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.62285 | 134.2701 | DBL-G1524-WICH |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.62368 | 133.479 | DBL-THIS-G1524 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97 | 0.62285 | 132.5175 | DBL-THIS-G1524 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.6 | 0.63353 | 128.6103 | DBL-G1524-WICH |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.2 | 0.63351 | 127.3881 | DBL-CLRK-THIS |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62494 | 126.2542 | DBL-G1524-WICH |
| 20L | 09NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.1 | 0.62502 | 126.0581 | DBL-G1524-WICH |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 96.8 | 0.62259 | 117.2632 | DBL-G1524-WICH |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62323 | 115.2069 | DBL-G1524-WICH |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | FAIRBURY - HARBINE 115KV CKT 1 | 97.9 | 0.62323 | 113.5726 | DBL-THIS-G1524 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | G13-002&019T115.00 - SW7&BENNET7 115.00 115KV CKT 1 | 240 | 0.13373 | 108.4782 | P12:115:LES:L1099:FOLSOM&PLEASANTHILL.SHELDON.CKT1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.9 | -0.00182 | 110.5473 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.9 | -0.00182 | 110.3263 | GERALD GENTLEMAN STATION 230/23.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.9 | -0.00182 | 110.2385 | GERALD GENTLEMAN STATION 345/24.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.3 | -0.00182 | 108.2267 | GERALD GENTLEMAN STATION 230/23.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.3 | -0.00182 | 108.2151 | GERALD GENTLEMAN STATION 345/24.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.3 | -0.00182 | 108.1794 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00719 | 118.6446 | RIEL - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00719 | 118.4176 | ROSEAU - ROSEAU 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00719 | 118.4176 | ROSEAU - ROSEAU 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00719 | 118.2049 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.0067 | 116.9911 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00677 | 116.7086 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.0068 | 116.0567 | STORLA - WESSINGTON 230KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.0073 | 116.0085 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00692 | 115.4631 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00692 | 115.4631 | WATERTN-LNX3345.00 - WATERTOWN 345KV CKT Z |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00692 | 115.4631 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00679 | 114.9645 | HANLON - STORLA 230KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00669 | 114.6083 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00716 | 114.0915 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00687 | 113.7037 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00687 | 113.7037 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|--|
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00686 | 113.6893 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00687 | 113.2356 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00677 | 113.0354 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.0065 | 110.9625 | RIEL - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.0065 | 110.7486 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.0065 | 110.7486 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.0065 | 110.549 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.0073 | 109.6884 | P13:014-115:GRIS:GSUPGS |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00685 | 109.5161 | RIEL - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00605 | 109.3863 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00685 | 109.331 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00685 | 109.331 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.0073 | 109.2861 | BASE CASE |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00685 | 109.1601 | FORBES - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00599 | 109.1571 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.0066 | 109.025 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00608 | 108.3316 | STORLA - WESSINGTON 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00646 | 108.3274 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00634 | 108.1545 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00696 | 108.0512 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00644 | 107.3587 | STORLA - WESSINGTON 230KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00609 | 107.3051 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00597 | 106.8895 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.0066 | 106.3585 | HANLON - STORLA 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00645 | 106.305 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.0066 | 106.1589 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.0065 | 106.0288 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00648 | 105.9429 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00611 | 105.8795 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00633 | 105.8758 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00611 | 105.8653 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.0061 | 105.8366 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00605 | 105.6504 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00633 | 105.5981 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00611 | 105.4375 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00686 | 105.2155 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00696 | 105.1318 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00696 | 105.0036 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 104.9161 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00648 | 104.853 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00648 | 104.853 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00696 | 104.8185 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00647 | 104.8101 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00646 | 104.5963 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00648 | 104.4115 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.0066 | 102.1948 | BASE CASE |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00696 | 101.2297 | BASE CASE |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00719 | 117.8634 | RIEL - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00719 | 117.6402 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|--|
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00719 | 117.6402 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00719 | 117.4171 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.0067 | 116.2371 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00677 | 115.9454 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.0068 | 115.3182 | STORLA - WESSINGTON 230KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.0073 | 115.2568 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00692 | 114.7343 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00692 | 114.7343 | WATERTN-LNX3345.00 - WATERTOWN 345KV CKT Z |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00692 | 114.7343 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00679 | 114.2439 | HANLON - STORLA 230KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00669 | 113.8935 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00716 | 113.3853 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00687 | 113.0038 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00687 | 113.0038 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00686 | 112.9897 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00687 | 112.5435 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00677 | 112.3465 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.0065 | 109.5968 | RIEL - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.0065 | 109.3875 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.0065 | 109.3875 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.0065 | 109.1921 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.0073 | 109.0547 | P13:014-115:GRIS:GSUPGS |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.0073 | 108.6589 | BASE CASE |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00685 | 108.2748 | RIEL - ROSEAU 500KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00685 | 108.0935 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00685 | 108.0935 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00605 | 108.0544 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00685 | 107.9261 | FORBES - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00599 | 107.8302 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.0066 | 107.7009 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00646 | 107.1105 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00608 | 107.0224 | STORLA - WESSINGTON 230KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00634 | 106.9411 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00696 | 106.8399 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00644 | 106.1616 | STORLA - WESSINGTON 230KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00609 | 106.018 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00597 | 105.6113 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00645 | 105.1296 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.0066 | 105.0917 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.0066 | 104.8963 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.0065 | 104.7691 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00633 | 104.7091 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00648 | 104.685 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00611 | 104.623 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00611 | 104.623 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.0061 | 104.581 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00605 | 104.3988 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00633 | 104.3616 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00633 | 104.3616 | WATERTN-LNX3345.00 - WATERTOWN 345KV CKT Z |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|---|
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00686 | 104.0624 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00696 | 103.9803 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00696 | 103.8548 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 103.7691 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00648 | 103.7073 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00648 | 103.7073 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00696 | 103.6735 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00647 | 103.6653 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00646 | 103.4559 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00648 | 103.2749 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.0066 | 101.0174 | BASE CASE |
| 25SP | 00NR | 0 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00696 | 100.1583 | BASE CASE |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00737 | 126.3159 | P13:230-345:SPS:POTTER_CO.1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00737 | 126.3159 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00737 | 122.5912 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00737 | 119.9397 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.0053 | 108.4823 | P12:230:SPS:K76.1.HITCH.OCLTRE |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.0053 | 108.1667 | OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.0053 | 108.1667 | P13:115-230:SPS:OCHILTREE.1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00597 | 102.8513 | OCHILTREE - TEXAS FARMS SUB 115KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00571 | 102.6422 | P12:230:SPS:K75.1.HITCH.MOORE |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00597 | 100.8942 | SPEARMAN SUB - TEXAS FARMS SUB 115KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00554 | 100.6091 | BORDER 7345.00 - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00737 | 118.8381 | P13:230-345:SPS:POTTER_CO.1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00737 | 118.8381 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00737 | 115.1436 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00737 | 112.5137 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.0053 | 101.1497 | P12:230:SPS:K76.1.HITCH.OCLTRE |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.0053 | 100.8992 | OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.0053 | 100.8992 | P13:115-230:SPS:OCHILTREE.1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 | 641.3 | 0.01975 | 106.2015 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 | 641.3 | 0.01975 | 106.2015 | P13:230-345:SPS:HITCHLAND.2 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 | 643.3 | 0.01975 | 105.8091 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 | 643.3 | 0.01975 | 105.8091 | P13:230-345:SPS:HITCHLAND.2 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 | 287.4 | 0.00769 | 106.3406 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 | 287.4 | 0.00769 | 106.3406 | P13:115-230:SPS:HITCHLAND.2 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 | 288 | 0.00769 | 106.0149 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 | 288 | 0.00769 | 106.0149 | P13:115-230:SPS:HITCHLAND.2 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 | 640.5 | 0.02018 | 108.6841 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 | 640.5 | 0.02018 | 108.6841 | P13:230-345:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 | 643.1 | 0.02018 | 108.1825 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 | 643.1 | 0.02018 | 108.1825 | P13:230-345:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 | 287.4 | 0.00769 | 106.3406 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 | 287.4 | 0.00769 | 106.3406 | P13:115-230:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 | 288 | 0.00769 | 106.0149 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 | 288 | 0.00769 | 106.0149 | P13:115-230:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | JONES STATION - TUCO INTERCHANGE 230KV CKT 1 | 342.8 | 0.00798 | 109.7601 | P12:230:SPS:K24.1.TUCO.CRLSLE |
| 17G | 09ALL | 0 | TO->FROM | G15_100 | JONES STATION - TUCO INTERCHANGE 230KV CKT 1 | 343.6 | 0.01184 | 100.457 | JONES STATION 230/22.0KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|---|
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.12674 | 131.7435 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.12719 | 119.321 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.12853 | 118.1172 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.12853 | 118.1172 | P12:115:WERE:KNOB-MKEC_115:: |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.12853 | 118.1172 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.12699 | 116.3064 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.12699 | 116.3064 | P12:115:WERE:KNOB-MKEC_115:: |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.12699 | 116.3064 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.12853 | 114.7876 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.12699 | 114.3284 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.12699 | 112.5701 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.12853 | 110.903 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.08794 | 110.6024 | KELLY - S1399 5 161KV CKT 1 |
| 20L | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.08585 | 110.4418 | KELLY - S1399 5 161KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.08683 | 109.6179 | KELLY - S1399 5 161KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12812 | 109.1228 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12812 | 109.1228 | P12:115:WERE:KNOB-MKEC_115:: |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12812 | 109.1228 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.12769 | 108.5309 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.12769 | 108.5309 | P12:115:WERE:KNOB-MKEC_115:: |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.12769 | 108.5309 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12812 | 106.146 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.12769 | 105.9136 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12779 | 103.346 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12779 | 103.346 | P12:115:WERE:KNOB-MKEC_115:: |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12779 | 103.346 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12812 | 102.6179 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12839 | 101.6613 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12839 | 101.6613 | P12:115:WERE:KNOB-MKEC_115:: |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12839 | 101.6613 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 16WP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.08749 | 101.3217 | KELLY - S1399 5 161KV CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.07054 | 101.0521 | P12:161:WERE:TECH-KELL-OPPD_161:: |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.07054 | 101.0521 | P12:161:WERE-OPPD:S1399-KELLY |
| 20WP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12779 | 100.2589 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.08712 | 100.0598 | KELLY - S1399 5 161KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | NEOSHO - SUB 452 - RIVERTON 161KV CKT 1 | 222.6 | 0.00053 | 101.1982 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | NEOSHO - SUB 452 - RIVERTON 161KV CKT 1 | 222.3 | 0.00052 | 100.4286 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | NORTH PLATTE - STOCKVILLE 115KV CKT 1 | 136.6 | 0.01221 | 100.9994 | GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | OTTUMWA - WAPELLO COUNTY NO1 + NO 2 + N 161KV CKT 1 | 268 | 0.01572 | 108.7263 | OTTUMWA - WAPELLO COUNTY NO1 + NO 2 + N 161KV CKT 2 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02885 | 124.8369 | BORDER 7345.00 - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02885 | 122.2374 | BORDER 7345.00 - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02885 | 122.1194 | BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02452 | 121.7669 | G14-074T 345.00 - TUCO INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02825 | 121.4084 | P12:230:SPS:K75.1.HITCH.MOORE |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02452 | 119.9674 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|--|
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02885 | 119.5982 | BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02452 | 119.2536 | G14-074T 345.00 - TUCO INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02825 | 118.9031 | P12:230:SPS:K75.1.HITCH.MOORE |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02452 | 117.4762 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 116.4801 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02335 | 116.1223 | P12:230:AEPW-SPS:SWEETWT6:WHEELER 6 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02335 | 116.1223 | P12:230:SPS:K74.1.WEELR.SWT(520) |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02335 | 116.1223 | STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02335 | 116.1223 | STLN-DEMARC6 - SWEETWATER 230KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 115.9863 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 115.5058 | Golden Spread REC - Mustang Interchange 230 kV Generation Bus - MUSTANG STATION 230KV CKT @1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 114.5789 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 114.5471 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 114.5471 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 114.5471 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 114.1566 | Golden Spread REC - Mustang Interchange 230 kV Generation Bus - MUSTANG STATION 230KV CKT @1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 114.0845 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02335 | 113.7167 | P12:230:AEPW-SPS:SWEETWT6:WHEELER 6 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02335 | 113.7167 | P12:230:SPS:K74.1.WEELR.SWT(520) |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02335 | 113.7167 | STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02335 | 113.7167 | STLN-DEMARC6 - SWEETWATER 230KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 113.6017 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 113.3303 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 113.3303 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 113.3303 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 113.1139 | Golden Spread REC - Mustang Interchange 230 kV Generation Bus - MUSTANG STATION 230KV CKT @1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 112.2256 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 112.1945 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 112.1766 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 112.1766 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 111.8127 | P13:230-345:SPS:HITCHLAND.1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|--|
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 111.0048 | P13:230-345:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 111.0048 | P13:230-345:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 111.0048 | P13:230-345:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 103.0292 | BASE CASE |
| 25SP | 09ALL | 0 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 100.9151 | BASE CASE |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1 | 395.5 | 0.01091 | 106.4751 | ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1 |
| 20SP | 09ALL | 0 | TO->FROM | G15_100 | RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1 | 395.5 | 0.01118 | 102.7412 | ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 494.8 | 0.01981 | 107.3317 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 17SP | 00NR | 0 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 494.8 | 0.01981 | 107.3317 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 495.4 | 0.02019 | 100.5294 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 20SP | 00NR | 0 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 495.4 | 0.02019 | 100.5294 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 478.7 | 0.01981 | 110.9416 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 478.7 | 0.01981 | 110.9416 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.2 | 0.01981 | 110.8466 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.2 | 0.01981 | 110.8466 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.3 | 0.02019 | 103.9063 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.3 | 0.02019 | 103.9063 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.02019 | 103.8621 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 20SP | 00NR | 0 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.02019 | 103.8621 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.3 | 0.01993 | 103.3365 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.3 | 0.01993 | 103.3365 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.01993 | 103.2927 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.01993 | 103.2927 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 55.1 | 0.01323 | 106.1481 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 20SP | 09ALL | 0 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 55.6 | 0.01323 | 105.0137 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 54.8 | 0.00959 | 102.8299 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 55.4 | 0.00959 | 101.3552 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 0 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 54.9 | 0.00969 | 99.9322 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1 | 350.5 | 0.00595 | 101.5161 | TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1 |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 184.3 | 0.00506 | 106.7321 | P12:230:SPS:K03.1.SUNDWN.WOLFTH |
| 17SP | 09ALL | 0 | FROM->TO | G15_100 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 186 | 0.00506 | 105.4877 | P12:230:SPS:K03.1.SUNDWN.WOLFTH |
| 17SP | 00NR | 0 | FROM->TO | G15_100 | SWISSVALE - WEST GARDNER 345KV CKT 1 | 714.1 | 0.01892 | 103.4128 | G15074_T 345.00 - HOYT 345KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.02159 | 122.3774 | TUCO INTERCHANGE - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.00987 | 116.6917 | P13:230-345:SPS:TUCO_INT.1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.00987 | 116.6917 | TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.00957 | 109.369 | P13:230-345:SPS:TUCO_INT.2 |
| 25SP | 09ALL | 0 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.00957 | 109.369 | TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2 |
| 17G | 09ALL | 0 | FROM->TO | G15_100 | WICHITA (WICH TX-12) 345/138/13.8KV TRANSFORMER CKT 1 | 423.7 | 0.00993 | 100.2576 | WICHITA (WICH TX-11) 345/138/13.8KV TRANSFORMER CKT 1 |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | SSCROCKR 161.00 - FRANKS 161KV CKT 1 | 163 | 0.01019 | 107.8054 | FRANKS - HUBEN 345KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | SSCROCKR 161.00 - FRANKS 161KV CKT 1 | 163 | 0.01024 | 104.4962 | FRANKS - HUBEN 345KV CKT 1 |
| 17SP | 09ALL | 2 | TO->FROM | G15_100 | SSCROCKR 161.00 - FRANKS 161KV CKT 1 | 163 | 0.00975 | 100.9018 | FRANKS - HUBEN 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | SSCROCKR 161.00 - LEBANON 161KV CKT 1 | 162.7 | 0.01024 | 101.3084 | FRANKS - HUBEN 345KV CKT 1 |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | SSCROCKR 161.00 - LEBANON 161KV CKT 1 | 162.6 | 0.01019 | 100.4445 | FRANKS - HUBEN 345KV CKT 1 |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.6 | 0.12963 | 129.3183 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.13007 | 116.9883 | P12:115:MKEC:CONCORDIA-CLIFTON:: |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|--------------------------------------|
| 17G | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.8 | 0.13141 | 116.2241 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.8 | 0.13141 | 116.2241 | P12:115:WERE:KNOB-MKEC_115:: |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.8 | 0.13141 | 116.2241 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12987 | 114.9773 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12987 | 114.9773 | P12:115:WERE:KNOB-MKEC_115:: |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12987 | 114.9773 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12987 | 112.9927 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.8 | 0.13141 | 112.8833 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.12987 | 111.2287 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.0878 | 109.301 | KELLY - S1399 5 161KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.8 | 0.13141 | 109.0971 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 89.8 | 0.0899 | 108.784 | KELLY - S1399 5 161KV CKT 1 |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.13101 | 107.435 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.13101 | 107.435 | P12:115:WERE:KNOB-MKEC_115:: |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.13101 | 107.435 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.6 | 0.08879 | 107.1559 | KELLY - S1399 5 161KV CKT 1 |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.6 | 0.13058 | 106.0804 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.6 | 0.13058 | 106.0804 | P12:115:WERE:KNOB-MKEC_115:: |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.6 | 0.13058 | 106.0804 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.13101 | 104.4482 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.6 | 0.13058 | 103.4603 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20WP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.5 | 0.13067 | 101.5253 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20WP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.5 | 0.13067 | 101.5253 | P12:115:WERE:KNOB-MKEC_115:: |
| 20WP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.5 | 0.13067 | 101.5253 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.4 | 0.13101 | 100.9084 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 91.4 | 0.12963 | 126.4285 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.13141 | 114.3951 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.13141 | 114.3951 | P12:115:WERE:KNOB-MKEC_115:: |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.13141 | 114.3951 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.5 | 0.13007 | 114.1529 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.12987 | 113.9208 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.12987 | 113.9208 | P12:115:WERE:KNOB-MKEC_115:: |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.12987 | 113.9208 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.12987 | 111.9296 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.13141 | 111.0394 | CLIFTON - GREENLEAF 115KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|--|
| 20L | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.12987 | 110.1597 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.4 | 0.0878 | 108.2257 | KELLY - S1399 5 161KV CKT 1 |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.13141 | 107.1244 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 89.4 | 0.0899 | 106.9217 | KELLY - S1399 5 161KV CKT 1 |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.2 | 0.13101 | 105.6776 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.2 | 0.13101 | 105.5667 | P12:115:WERE:KNOB-MKEC_115:: |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.2 | 0.13101 | 105.5667 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 91.4 | 0.08879 | 104.3269 | KELLY - S1399 5 161KV CKT 1 |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 91.4 | 0.13058 | 103.249 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 91.4 | 0.13058 | 103.1396 | P12:115:WERE:KNOB-MKEC_115:: |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 91.4 | 0.13058 | 103.1396 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 90.2 | 0.13101 | 102.5734 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SOUTH SENECA 115KV CKT 1 | 91.4 | 0.13058 | 100.5138 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | BLOOMFIELD - GAVINS POINT 115KV CKT 1 | 119.6 | 0.00584 | 107.5258 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 20WP | 09ALL | 2 | FROM->TO | G15_100 | BLOOMFIELD - GAVINS POINT 115KV CKT 1 | 119.7 | 0.00593 | 106.7766 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | BLOOMFIELD - GAVINS POINT 115KV CKT 1 | 119.6 | 0.0075 | 103.5953 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | BLOOMFIELD - GAVINS POINT 115KV CKT 1 | 119.7 | 0.0057 | 102.2423 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00964 | 108.707 | G14-074T 345.00 - TUCO INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.01184 | 106.97 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.01202 | 106.9187 | BORDER 7345.00 - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00964 | 106.6926 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.01202 | 104.5302 | BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00937 | 104.4915 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00937 | 103.8608 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00937 | 103.4027 | BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00937 | 102.8272 | CROSTOWN - GRAND AVENUE WEST 161KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00937 | 101.731 | Golden Spread REC - Mustang Interchange 230 kV Generation Bus - MUSTANG STATION 230KV CKT @1 |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | CARLISLE INTERCHANGE - LP-DOUD_TP 3115.00 115KV CKT 1 | 159.9 | 0.00758 | 113.577 | P12:230:SPS:K10.1.LUBBS.WOLFTH |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | CHARLOT5 161.00 - CROSTOWN 161KV CKT 1 | 257 | 0.01208 | 105.817 | CROSTOWN - GRAND AVENUE WEST 161KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | CHARLOT5 161.00 - CROSTOWN 161KV CKT 1 | 257 | 0.01371 | 103.6752 | P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | CHARLOT5 161.00 - CROSTOWN 161KV CKT 1 | 257 | 0.01383 | 102.9415 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01208 | 119.2022 | CROSTOWN - GRAND AVENUE WEST 161KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01371 | 117.0604 | P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01383 | 116.3267 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257.8 | 0.01382 | 108.2849 | P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257.8 | 0.01389 | 107.9778 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.0142 | 105.4101 | 87th STREET - STRANGER CREEK 345KV CKT 1 |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257.8 | 0.0127 | 104.4701 | CROSTOWN - GRAND AVENUE WEST 161KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01192 | 100.8289 | GRAND AVENUE - GRAND AVENUE REACTOR 161KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01192 | 100.8289 | GRAND AVENUE - NAVY 161KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01192 | 100.8289 | GRAND AVENUE REACTOR - NORTHEAST REACTOR 161KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01192 | 100.8289 | NORTHEAST - NORTHEAST REACTOR 161KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01192 | 100.8289 | P12:161:KCPL:NORTHEAST-REACTORS-GRAND |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01407 | 100.1511 | 87th STREET - CRAIG 345KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | CLARKSVILLE - DARDANELLE 161KV CKT 1 | 192 | 0.00932 | 110.5825 | ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1 |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | CLARKSVILLE - DARDANELLE 161KV CKT 1 | 191.9 | 0.00958 | 104.1947 | ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1 |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | CLIFTON - CONCORDIA 115KV CKT 1 | 113.3 | 0.12092 | 102.0392 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | CLIFTON - CONCORDIA 115KV CKT 1 | 113.3 | 0.12092 | 102.0392 | P12:115:WERE:MARS-SSEN_115:: |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|---|
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | CLIFTON - CONCORDIA 115KV CKT 1 | 113.3 | 0.12092 | 101.0683 | BAILEYVILLE N.M. STATION (NEMAHA MARSHALL R - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1 | 258.8 | 0.01127 | 113.0805 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1 | 258.8 | 0.01127 | 101.2567 | CHARLOT5 161.00 - CROSSTOWN 161KV CKT 1 |
| 17SP | 09ALL | 2 | TO->FROM | G15_100 | CROSSTOWN - NORTHEAST 161KV CKT 1 | 258 | 0.01479 | 105.3003 | P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY |
| 17SP | 09ALL | 2 | TO->FROM | G15_100 | CROSSTOWN - NORTHEAST 161KV CKT 1 | 258 | 0.01486 | 105.1098 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 334.2 | 0.01118 | 115.2129 | BASE CASE |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 336 | 0.01118 | 114.7148 | BASE CASE |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 334.8 | 0.0112 | 112.7073 | BASE CASE |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 334.6 | 0.01004 | 112.4641 | BASE CASE |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 336 | 0.0112 | 112.4238 | BASE CASE |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 336 | 0.01004 | 112.1145 | BASE CASE |
| 20WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 334.6 | 0.01161 | 111.7433 | BASE CASE |
| 20WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 336 | 0.01161 | 111.3968 | BASE CASE |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.6 | 0.01921 | 107.5741 | HOSKINS - RAUN 345KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01921 | 107.3108 | HOSKINS - RAUN 345KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.6 | 0.01424 | 105.4727 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 419 | 0.01903 | 105.2944 | HOSKINS - RAUN 345KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01424 | 105.2402 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01903 | 105.1389 | HOSKINS - RAUN 345KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.6 | 0.01389 | 104.6505 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 419 | 0.01458 | 104.5226 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.0146 | 104.4287 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01389 | 104.4207 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01458 | 104.3689 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.0146 | 104.2505 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01753 | 104.1546 | HOSKINS - RAUN 345KV CKT 1 |
| 20WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01973 | 104.0744 | HOSKINS - RAUN 345KV CKT 1 |
| 20WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01498 | 104.0099 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01753 | 103.9771 | HOSKINS - RAUN 345KV CKT 1 |
| 20WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01973 | 103.897 | HOSKINS - RAUN 345KV CKT 1 |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01327 | 103.8655 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 20WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01498 | 103.8328 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01327 | 103.6887 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.4 | 0.01122 | 102.6077 | BASE CASE |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.9 | 0.01122 | 102.5741 | BASE CASE |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 419 | 0.01413 | 102.5526 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 17SP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.4 | 0.01082 | 102.4444 | BASE CASE |
| 16WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01413 | 102.4037 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 17SP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.9 | 0.01082 | 102.3812 | BASE CASE |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.6 | 0.01125 | 102.0903 | RASMUSN - SIOUX CITY 230KV CKT 1 |
| 20WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01458 | 101.9455 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01125 | 101.869 | RASMUSN - SIOUX CITY 230KV CKT 1 |
| 20WP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01458 | 101.7737 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.4 | 0.01114 | 100.3389 | BASE CASE |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.9 | 0.01114 | 100.2789 | BASE CASE |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01061 | 107.5317 | PLEASANT HILL (P HILL) 345/161/13.8KV TRANSFORMER CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.00915 | 106.7346 | ECKLES - SIBLEYPL 161.00 161KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01141 | 103.7132 | ORRICK - SIBLEYPL 161.00 161KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|----------|-----------------------|---|
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01064 | 103.2226 | LEEDS - WINCHESTER JUNCTION NORTH 161KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01141 | 102.9947 | ORRICK - RICHMOND 161KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01064 | 101.8306 | P12:161:KCPL:WINCHESTERJCTN-LOMEVISTAE-LEEDS-SWOPEN |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01064 | 101.7857 | LOMA VISTA EAST - WINCHESTER JUNCTION NORTH 161KV CKT 1 |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01141 | 101.3782 | P12:161:GMO:SIBLEYPLANT-ORRICK-RICHMOND-LEXINGTON |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | G13-002&019T115.00 - SW7&BENNET7 115.00 115KV CKT 1 | 240 | 0.13604 | 108.427 | P12:115:LES:L1099::FOLSOM&PLEASANTHILL.SHELDON.CKT1 |
| 16WP | 00NR | 2 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.9 | -0.00183 | 110.5472 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.9 | -0.00183 | 110.3262 | GERALD GENTLEMAN STATION 230/23.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.9 | -0.00183 | 110.2383 | GERALD GENTLEMAN STATION 345/24.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 2 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.3 | -0.00183 | 108.2266 | GERALD GENTLEMAN STATION 230/23.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 2 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.3 | -0.00183 | 108.2148 | GERALD GENTLEMAN STATION 345/24.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 2 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.3 | -0.00183 | 108.1792 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00756 | 118.6509 | RIEL - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00756 | 118.4239 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00756 | 118.4239 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00756 | 118.2112 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00705 | 116.997 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00715 | 116.7151 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00716 | 116.0629 | STORLA - WESSINGTON 230KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00767 | 116.0148 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00728 | 115.4692 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00728 | 115.4692 | WATERTN-LNX3345.00 - WATERTOWN 345KV CKT Z |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00728 | 115.4692 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00715 | 114.9706 | HANLON - STORLA 230KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00704 | 114.6142 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00752 | 114.0976 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00723 | 113.7098 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00723 | 113.7098 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00722 | 113.6954 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00723 | 113.2418 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00715 | 113.0418 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00686 | 110.9687 | RIEL - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00686 | 110.7548 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00686 | 110.7548 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00686 | 110.5551 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00767 | 109.6947 | P13:014-115:GRIS:GSUPGS |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00722 | 109.5224 | RIEL - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00644 | 109.393 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00722 | 109.3515 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00722 | 109.3515 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00767 | 109.2924 | BASE CASE |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00722 | 109.1664 | FORBES - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00634 | 109.1631 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00697 | 109.0313 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00644 | 108.3378 | STORLA - WESSINGTON 230KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 108.3339 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.0067 | 108.1606 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00732 | 108.0573 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00679 | 107.3647 | STORLA - WESSINGTON 230KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|--|
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00645 | 107.3113 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00633 | 106.8957 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00697 | 106.3791 | HANLON - STORLA 230KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.0068 | 106.311 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00697 | 106.1652 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00687 | 106.0351 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00685 | 105.9492 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00668 | 105.896 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00648 | 105.8859 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00648 | 105.8859 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00647 | 105.8429 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00644 | 105.657 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00669 | 105.6043 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00648 | 105.4438 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00723 | 105.2218 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00732 | 105.1379 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00732 | 105.0098 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00721 | 104.9366 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 104.8591 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 104.8591 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00732 | 104.8246 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00683 | 104.8162 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 104.6028 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 104.4177 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00697 | 102.2011 | BASE CASE |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00732 | 101.2359 | BASE CASE |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00756 | 117.8696 | RIEL - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00756 | 117.6464 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00756 | 117.6464 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00756 | 117.4232 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00705 | 116.243 | P12:230:UMZW:# 116 #: ST IN SD. WSG-ST-VH |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00715 | 115.9517 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00716 | 115.3242 | STORLA - WESSINGTON 230KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00767 | 115.263 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00728 | 114.7403 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00728 | 114.7403 | WATERTN-LNX3345.00 - WATERTOWN 345KV CKT Z |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00728 | 114.7403 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00715 | 114.25 | HANLON - STORLA 230KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00704 | 113.8994 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00752 | 113.3913 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00723 | 113.0098 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00723 | 113.0098 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00722 | 112.9957 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00767 | 112.7103 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00723 | 112.5356 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00715 | 112.3529 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00686 | 109.6028 | RIEL - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00686 | 109.4074 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00686 | 109.4074 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|---|
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00686 | 109.1982 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00767 | 108.6651 | BASE CASE |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00722 | 108.281 | RIEL - ROSEAU 500KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00722 | 108.1136 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00722 | 108.1136 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00644 | 108.0609 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00722 | 107.9323 | FORBES - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00634 | 107.836 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00697 | 107.707 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 107.1169 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00644 | 107.0284 | STORLA - WESSINGTON 230KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.0067 | 106.9471 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00732 | 106.8459 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00679 | 106.1675 | STORLA - WESSINGTON 230KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00645 | 106.024 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00633 | 105.6174 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.0068 | 105.1354 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00697 | 105.1118 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00697 | 104.9025 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00687 | 104.7753 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00668 | 104.7289 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00685 | 104.6912 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00648 | 104.6292 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00648 | 104.6292 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00647 | 104.5872 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00644 | 104.4053 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00669 | 104.3676 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00669 | 104.3676 | WATERTN-LNX3345.00 - WATERTOWN 345KV CKT Z |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00723 | 104.0686 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00732 | 103.9864 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00732 | 103.8608 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00721 | 103.7893 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 103.7133 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 103.7133 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00732 | 103.6795 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00683 | 103.6713 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00732 | 103.5121 | G15_023_1 345.00 345/34.5KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 103.4622 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00697 | 101.0236 | BASE CASE |
| 25SP | 00NR | 2 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00732 | 100.1644 | BASE CASE |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00736 | 126.3152 | P13:230-345:SPS:POTTER_CO.1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00736 | 126.3152 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00736 | 122.5904 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00736 | 119.9389 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00529 | 108.4816 | P12:230:SPS:K76.1.HITCH.OCLTRE |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00529 | 108.1659 | OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00529 | 108.1659 | P13:115-230:SPS:OCHILTREE.1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00596 | 102.8505 | OCHILTREE - TEXAS FARMS SUB 115KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|---|
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.0057 | 102.6414 | P12:230:SPS:K75.1.HITCH.MOORE |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00596 | 100.8934 | SPEARMAN SUB - TEXAS FARMS SUB 115KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00553 | 100.6083 | BORDER 7345.00 - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00736 | 118.8373 | P13:230-345:SPS:POTTER_CO.1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00736 | 118.8373 | POTTER COUNTY INTERCHANGE (WAIK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00736 | 115.2055 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00736 | 112.513 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00529 | 101.1489 | P12:230:SPS:K76.1.HITCH.OCLTRE |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00529 | 100.8984 | OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00529 | 100.8984 | P13:115-230:SPS:OCHILTREE.1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 | 641.3 | 0.01971 | 106.2007 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 | 641.3 | 0.01971 | 106.2007 | P13:230-345:SPS:HITCHLAND.2 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 | 643.3 | 0.01971 | 105.8083 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 | 643.3 | 0.01971 | 105.8083 | P13:230-345:SPS:HITCHLAND.2 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 | 287.4 | 0.00767 | 106.3397 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 | 287.4 | 0.00767 | 106.3397 | P13:115-230:SPS:HITCHLAND.2 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 | 288 | 0.00767 | 106.0488 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 | 288 | 0.00767 | 106.0488 | P13:115-230:SPS:HITCHLAND.2 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 | 640.5 | 0.02014 | 108.6833 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 | 640.5 | 0.02014 | 108.6833 | P13:230-345:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 | 643.1 | 0.02014 | 108.1817 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 | 643.1 | 0.02014 | 108.1817 | P13:230-345:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 | 287.4 | 0.00767 | 106.3397 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 | 287.4 | 0.00767 | 106.3397 | P13:115-230:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 | 288 | 0.00767 | 106.0488 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 | 288 | 0.00767 | 106.0488 | P13:115-230:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | JONES STATION - TUCO INTERCHANGE 230KV CKT 1 | 342.8 | 0.00799 | 109.7604 | P12:230:SPS:K24.1.TUCO.CRLSLE |
| 17G | 09ALL | 2 | TO->FROM | G15_100 | JONES STATION - TUCO INTERCHANGE 230KV CKT 1 | 343.6 | 0.01185 | 100.4574 | JONES STATION 230/22.0KV TRANSFORMER CKT 1 |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.12963 | 131.9036 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.13007 | 119.2612 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.13141 | 117.9458 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.13141 | 117.9458 | P12:115:WERE:KNOB-MKEC_115:: |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.13141 | 117.9458 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.12987 | 116.1367 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.12987 | 116.0268 | P12:115:WERE:KNOB-MKEC_115:: |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.12987 | 116.0268 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.13141 | 114.6162 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.12987 | 114.1587 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.12987 | 112.4004 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.13141 | 110.8426 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.1 | 0.0899 | 110.5305 | KELLY - S1399 5 161KV CKT 1 |
| 20L | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91 | 0.0878 | 110.3692 | KELLY - S1399 5 161KV CKT 1 |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.08879 | 109.7653 | KELLY - S1399 5 161KV CKT 1 |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.13101 | 108.9539 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.13101 | 108.9539 | P12:115:WERE:KNOB-MKEC_115:: |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.13101 | 108.9539 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.13058 | 108.691 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.13058 | 108.691 | P12:115:WERE:KNOB-MKEC_115:: |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|--|
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.13058 | 108.691 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.13058 | 106.0737 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.13101 | 105.9771 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 20WP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.13067 | 103.1758 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 20WP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.13067 | 103.1758 | P12:115:WERE:KNOB-MKEC_115:: |
| 20WP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.13067 | 103.1758 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.13101 | 102.449 | P12:115:MKEC:CONCORDIA-CLIFTON:: |
| 17SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.13127 | 101.6013 | GREENLEAF - KNOB HILL 115KV CKT 1 |
| 17SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.13127 | 101.4911 | P12:115:WERE:KNOB-MKEC_115:: |
| 17SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.13127 | 101.4911 | P12:115:WERE-MKEC:CLIFTON-KNOBHILL:: |
| 16WP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.08944 | 101.249 | KELLY - S1399 5 161KV CKT 1 |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.07212 | 101.1498 | P12:161:WERE:TECH-KELL-OPPD_161:: |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 91.7 | 0.07212 | 101.1498 | P12:161:WERE-OPPD:S1399-KELLY |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.9 | 0.08907 | 100.2073 | KELLY - S1399 5 161KV CKT 1 |
| 20WP | 09ALL | 2 | FROM->TO | G15_100 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 | 90.7 | 0.13067 | 100.0886 | CLIFTON - GREENLEAF 115KV CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_100 | NEOSHO - SUB 452 - RIVERTON 161KV CKT 1 | 222.6 | 0.00055 | 101.1993 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 2 | FROM->TO | G15_100 | NEOSHO - SUB 452 - RIVERTON 161KV CKT 1 | 222.3 | 0.00054 | 100.4297 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | NORTH PLATTE - STOCKVILLE 115KV CKT 1 | 136.6 | 0.01206 | 100.9862 | GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1 |
| 17SP | 09ALL | 2 | FROM->TO | G15_100 | OTTUMWA - WAPELLO COUNTY NO1 + NO 2 + N 161KV CKT 1 | 268 | 0.01568 | 108.7245 | OTTUMWA - WAPELLO COUNTY NO1 + NO 2 + N 161KV CKT 2 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02881 | 124.8361 | BORDER 7345.00 - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02881 | 122.2544 | BORDER 7345.00 - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02881 | 122.1185 | BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02448 | 121.7844 | G14-074T 345.00 - TUCO INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.0282 | 121.4073 | P12:230:SPS:K75.1.HITCH.MOORE |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02448 | 119.9665 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02881 | 119.5974 | BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02448 | 119.2527 | G14-074T 345.00 - TUCO INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.0282 | 118.902 | P12:230:SPS:K75.1.HITCH.MOORE |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02448 | 117.4933 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.0241 | 116.4792 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02331 | 116.1214 | P12:230:AEPW-SPS:SWEETWT6:WHEELER 6 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02331 | 116.1214 | P12:230:SPS:K74.1.WEELR.SWT(520) |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02331 | 116.1214 | STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02331 | 116.1214 | STLN-DEMARC6 - SWEETWATER 230KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.0241 | 115.9854 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.0241 | 115.5049 | Golden Spread REC - Mustang Interchange 230 kV Generation Bus - MUSTANG STATION 230KV CKT @1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.0241 | 114.5964 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.0241 | 114.546 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|--|
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.0241 | 114.546 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.0241 | 114.546 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.0241 | 114.1557 | Golden Spread REC - Mustang Interchange 230 kV Generation Bus - MUSTANG STATION 230KV CKT @1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.0241 | 114.0836 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02331 | 113.7338 | P12:230:AEPW-SPS:SWEETWT6:WHEELER 6 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02331 | 113.7338 | P12:230:SPS:K74.1.WEELR.SWT(520) |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02331 | 113.7338 | STATELINE INTERCHANGE - STLN-DEMAR6 230KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02331 | 113.7338 | STLN-DEMAR6 - SWEETWATER 230KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.0241 | 113.6008 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.0241 | 113.3478 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.0241 | 113.3294 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.0241 | 113.3294 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.0241 | 113.131 | Golden Spread REC - Mustang Interchange 230 kV Generation Bus - MUSTANG STATION 230KV CKT @1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.0241 | 112.2248 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.0241 | 112.1935 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.0241 | 112.1935 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.0241 | 112.1935 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.0241 | 111.8119 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.0241 | 111.004 | P12:230:SPS:K76.1.HITCH.OCLTRE |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.0241 | 111.004 | P13:230-345:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.0241 | 111.004 | P13:230-345:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.0241 | 103.0283 | BASE CASE |
| 25SP | 09ALL | 2 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.0241 | 100.9321 | BASE CASE |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1 | 395.5 | 0.01089 | 106.4493 | ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1 |
| 20SP | 09ALL | 2 | TO->FROM | G15_100 | RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1 | 395.5 | 0.01116 | 102.7406 | ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 494.8 | 0.01991 | 107.3139 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 17SP | 00NR | 2 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 494.8 | 0.01991 | 107.3139 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 495.4 | 0.02029 | 100.5319 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 20SP | 00NR | 2 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 495.4 | 0.02029 | 100.5319 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 478.7 | 0.01991 | 110.9232 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 478.7 | 0.01991 | 110.9232 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.2 | 0.01991 | 110.8492 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.2 | 0.01991 | 110.8492 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.4 | 0.02029 | 103.8871 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.4 | 0.02029 | 103.8871 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 00NR | 2 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.02029 | 103.8646 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|--|
| 20SP | 00NR | 2 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.02029 | 103.8646 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.3 | 0.02003 | 103.339 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.3 | 0.02003 | 103.339 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.02003 | 103.2952 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.02003 | 103.2952 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 55.1 | 0.01332 | 106.1677 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 20SP | 09ALL | 2 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 55.6 | 0.01332 | 104.8532 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 54.8 | 0.00967 | 102.8474 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 55.4 | 0.00967 | 101.3726 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 2 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 54.9 | 0.00977 | 100.1319 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1 | 350.5 | 0.00595 | 101.5161 | TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1 |
| 17SP | 09ALL | 2 | FROM->TO | G15_100 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 184.3 | 0.00506 | 106.7321 | P12:230:SPS:K03.1.SUNDWN.WOLFTH |
| 17SP | 09ALL | 2 | FROM->TO | G15_100 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 186 | 0.00506 | 105.4877 | P12:230:SPS:K03.1.SUNDWN.WOLFTH |
| 17SP | 00NR | 2 | FROM->TO | G15_100 | SWISSVALE - WEST GARDNER 345KV CKT 1 | 714.1 | 0.01938 | 103.4205 | G15074_T 345.00 - HOYT 345KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.02158 | 122.377 | TUCO INTERCHANGE - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.00987 | 116.6917 | P13:230-345:SPS:TUCO_INT.1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.00987 | 116.6917 | TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.00958 | 109.3693 | P13:230-345:SPS:TUCO_INT.2 |
| 25SP | 09ALL | 2 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.00958 | 109.3693 | TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2 |
| 17G | 09ALL | 2 | FROM->TO | G15_100 | WICHITA (WICH TX-12) 345/138/13.8KV TRANSFORMER CKT 1 | 423.7 | 0.00994 | 100.2579 | WICHITA (WICH TX-11) 345/138/13.8KV TRANSFORMER CKT 1 |
| 20SP | 09ALL | 3 | TO->FROM | G15_100 | 5SCROCKR 161.00 - FRANKS 161KV CKT 1 | 163 | 0.01021 | 107.8069 | FRANKS - HUBEN 345KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | 5SCROCKR 161.00 - FRANKS 161KV CKT 1 | 163 | 0.01026 | 104.4977 | FRANKS - HUBEN 345KV CKT 1 |
| 17SP | 09ALL | 3 | TO->FROM | G15_100 | 5SCROCKR 161.00 - FRANKS 161KV CKT 1 | 163 | 0.00977 | 100.9033 | FRANKS - HUBEN 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | 5SCROCKR 161.00 - LEBANON 161KV CKT 1 | 162.7 | 0.01026 | 101.3099 | FRANKS - HUBEN 345KV CKT 1 |
| 20SP | 09ALL | 3 | FROM->TO | G15_100 | 5SCROCKR 161.00 - LEBANON 161KV CKT 1 | 162.6 | 0.01021 | 100.446 | FRANKS - HUBEN 345KV CKT 1 |
| 16WP | 09ALL | 3 | FROM->TO | G15_100 | BLOOMFIELD - GAVINS POINT 115KV CKT 1 | 119.6 | 0.00595 | 107.6204 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 20WP | 09ALL | 3 | FROM->TO | G15_100 | BLOOMFIELD - GAVINS POINT 115KV CKT 1 | 119.7 | 0.00604 | 106.7876 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 20L | 09ALL | 3 | FROM->TO | G15_100 | BLOOMFIELD - GAVINS POINT 115KV CKT 1 | 119.6 | 0.00761 | 103.6064 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 17G | 09ALL | 3 | FROM->TO | G15_100 | BLOOMFIELD - GAVINS POINT 115KV CKT 1 | 119.7 | 0.00581 | 102.2533 | ANTELOPE 3345.00 - HOSKINS 345KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00965 | 108.7073 | G14-074T 345.00 - TUCO INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.01186 | 106.9707 | NEWHART 230 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.01202 | 106.9187 | BORDER 7345.00 - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00965 | 106.6929 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.01202 | 104.5302 | BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00938 | 104.4919 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00938 | 103.8612 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00938 | 103.4031 | BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00938 | 102.8275 | CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1 | 347.5 | 0.00938 | 101.7313 | Golden Spread REC - Mustang Interchange 230 kV Generation Bus - MUSTANG STATION 230KV CKT @1 |
| 17G | 09ALL | 3 | FROM->TO | G15_100 | CARLISLE INTERCHANGE - LP-DOUD_TP 3115.00 115KV CKT 1 | 159.9 | 0.00757 | 113.5762 | P12:230:SPS:K10.1.LUBBS.WOLFTH |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | CHARLOT5 161.00 - CROSSTOWN 161KV CKT 1 | 257 | 0.01211 | 105.8184 | CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | CHARLOT5 161.00 - CROSSTOWN 161KV CKT 1 | 257 | 0.01376 | 103.6775 | P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | CHARLOT5 161.00 - CROSSTOWN 161KV CKT 1 | 257 | 0.01388 | 102.9438 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01211 | 119.2036 | CROSSTOWN - GRAND AVENUE WEST 161KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01376 | 117.0627 | P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01388 | 116.329 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 20SP | 09ALL | 3 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257.8 | 0.01386 | 108.2867 | P12:161:KCPL:NORTHEAST-GRANDAVEW-NAVY |
| 20SP | 09ALL | 3 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257.8 | 0.01394 | 107.9414 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|---|
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01423 | 105.4115 | 87th STREET - STRANGER CREEK 345KV CKT 1 |
| 20SP | 09ALL | 3 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257.8 | 0.01273 | 104.4715 | CROSTOWN - GRAND AVENUE WEST 161KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01196 | 100.8308 | GRAND AVENUE - GRAND AVENUE REACTOR 161KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01196 | 100.8308 | GRAND AVENUE - NAVY 161KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01196 | 100.8308 | GRAND AVENUE REACTOR - NORTHEAST REACTOR 161KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01196 | 100.8308 | NORTHEAST - NORTHEAST REACTOR 161KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01196 | 100.8308 | P12:161:KCPL:NORTHEAST-REACTORS-GRAND |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 | 257 | 0.01409 | 100.1132 | 87th STREET - CRAIG 345KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | CLARKSVILLE - DARDANELLE 161KV CKT 1 | 192 | 0.00934 | 110.5837 | ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1 |
| 20SP | 09ALL | 3 | TO->FROM | G15_100 | CLARKSVILLE - DARDANELLE 161KV CKT 1 | 191.9 | 0.00959 | 104.1953 | ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1 |
| 20SP | 09ALL | 3 | FROM->TO | G15_100 | CLIFTON - CONCORDIA 115KV CKT 1 | 113.4 | 0.11795 | 101.3704 | MARSHAL3 115.00 - SMITTYVILLE N.M. COOP (NEMAHA MARSHALL R.E. 115KV CKT 1 |
| 20SP | 09ALL | 3 | FROM->TO | G15_100 | CLIFTON - CONCORDIA 115KV CKT 1 | 113.4 | 0.11795 | 101.3704 | P12:115:WERE:MARS-SSEN_115:: |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | CROSTOWN - GRAND AVENUE WEST 161KV CKT 1 | 258.8 | 0.0113 | 113.0433 | CHARLOT5 161.00 - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | CROSTOWN - GRAND AVENUE WEST 161KV CKT 1 | 258.8 | 0.0113 | 101.2581 | CHARLOT5 161.00 - CROSTOWN 161KV CKT 1 |
| 17SP | 09ALL | 3 | TO->FROM | G15_100 | CROSTOWN - NORTHEAST 161KV CKT 1 | 258 | 0.01484 | 105.3414 | P12:161:KCPL:NORTHEAST-GRANDAVIEW-NAVY |
| 17SP | 09ALL | 3 | TO->FROM | G15_100 | CROSTOWN - NORTHEAST 161KV CKT 1 | 258 | 0.01492 | 105.1125 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 334.2 | 0.01134 | 115.2187 | BASE CASE |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 336 | 0.01134 | 114.7502 | BASE CASE |
| 16WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 334.8 | 0.01136 | 112.713 | BASE CASE |
| 20L | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 334.6 | 0.01021 | 112.4702 | BASE CASE |
| 16WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 336 | 0.01136 | 112.4295 | BASE CASE |
| 20L | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 336 | 0.01021 | 112.1504 | BASE CASE |
| 20WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 334.6 | 0.01177 | 111.779 | BASE CASE |
| 20WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 336 | 0.01177 | 111.4323 | BASE CASE |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.6 | 0.0195 | 107.6063 | HOSKINS - RAUN 345KV CKT 1 |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.0195 | 107.3428 | HOSKINS - RAUN 345KV CKT 1 |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.6 | 0.01441 | 105.5015 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 16WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 419 | 0.01932 | 105.3266 | HOSKINS - RAUN 345KV CKT 1 |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01441 | 105.245 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 16WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01932 | 105.1711 | HOSKINS - RAUN 345KV CKT 1 |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.6 | 0.01407 | 104.6795 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 16WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 419 | 0.01474 | 104.551 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01477 | 104.4336 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01407 | 104.4258 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 16WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01474 | 104.3973 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01477 | 104.2553 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01782 | 104.1868 | HOSKINS - RAUN 345KV CKT 1 |
| 20WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.02002 | 104.1066 | HOSKINS - RAUN 345KV CKT 1 |
| 20WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01515 | 104.0387 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01782 | 104.0091 | HOSKINS - RAUN 345KV CKT 1 |
| 20WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.02002 | 103.9292 | HOSKINS - RAUN 345KV CKT 1 |
| 20L | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01345 | 103.8945 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 20WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01515 | 103.8614 | BELDEN 4 230.00 - DIXONCO 230.00 230KV CKT 1 |
| 20L | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01345 | 103.7176 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 20SP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.4 | 0.01139 | 102.6138 | BASE CASE |
| 16WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 419 | 0.01431 | 102.5817 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 20SP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.9 | 0.01139 | 102.5802 | BASE CASE |
| 17SP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.4 | 0.01099 | 102.4504 | BASE CASE |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|----------|-----------------------|---|
| 16WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01431 | 102.4327 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 17SP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.9 | 0.01099 | 102.417 | BASE CASE |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.6 | 0.01144 | 102.1196 | RASMUSN - SIOUX CITY 230KV CKT 1 |
| 20WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 418.9 | 0.01476 | 101.9506 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01144 | 101.8983 | RASMUSN - SIOUX CITY 230KV CKT 1 |
| 20WP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 420 | 0.01476 | 101.7789 | BELDEN 4 230.00 - RASMUSN 230KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.4 | 0.0113 | 100.3447 | BASE CASE |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | DIXONCO 3 345.00 (DIXON1) 345/230/13.8KV TRANSFORMER CKT 1 | 335.9 | 0.0113 | 100.2846 | BASE CASE |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01063 | 107.5328 | PLEASANT HILL (P HILL) 345/161/13.8KV TRANSFORMER CKT 1 |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.00917 | 106.7357 | ECKLES - SIBLEYPL 161.00 161KV CKT 1 |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01142 | 103.7137 | ORRICK - SIBLEYPL 161.00 161KV CKT 1 |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01065 | 103.2232 | LEEDS - WINCHESTER JUNCTION NORTH 161KV CKT 1 |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01142 | 102.9952 | ORRICK - RICHMOND 161KV CKT 1 |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01065 | 101.8312 | P12:161:KCPL:WINCHESTERJCTN-LOMEVISTAE-LEEDS-SWOPEN |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01065 | 101.7863 | LOMA VISTA EAST - WINCHESTER JUNCTION NORTH 161KV CKT 1 |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | DUNCAN ROAD - SIBLEYPL 161.00 161KV CKT 1 | 222.7 | 0.01142 | 101.3787 | P12:161:GMO:SIBLEYPLANT-ORRICK-RICHMOND-LEXINGTON |
| 20SP | 09ALL | 3 | FROM->TO | G15_100 | G13-002&019T115.00 - SW7&BENNET7 115.00 115KV CKT 1 | 240 | 0.13321 | 108.1605 | P12:115:LES:L1099::FOLSOM&PLEASANTHILL.SHELDON.CKT1 |
| 16WP | 00NR | 3 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.9 | -0.00182 | 110.5473 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.9 | -0.00182 | 110.3263 | GERALD GENTLEMAN STATION 230/23.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.9 | -0.00182 | 110.2385 | GERALD GENTLEMAN STATION 345/24.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 3 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.3 | -0.00182 | 108.2267 | GERALD GENTLEMAN STATION 230/23.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 3 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.3 | -0.00182 | 108.215 | GERALD GENTLEMAN STATION 345/24.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 3 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.3 | -0.00182 | 108.1794 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00718 | 118.6444 | RIEL - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00718 | 118.4316 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00718 | 118.4316 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00718 | 118.2047 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00669 | 117.0051 | P12:230:UMZW:# 116 #: ST IN SD. WSG-ST-VH |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00676 | 116.7084 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00679 | 116.0566 | STORLA - WESSINGTON 230KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00729 | 116.0083 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00691 | 115.4771 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00691 | 115.4771 | WATERTN-LNX3345.00 - WATERTOWN 345KV CKT Z |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00691 | 115.4771 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00678 | 114.9785 | HANLON - STORLA 230KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00667 | 114.6079 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00715 | 114.1055 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00686 | 113.7177 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00686 | 113.7035 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00684 | 113.7031 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00686 | 113.2355 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00676 | 113.0352 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00649 | 110.9623 | RIEL - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00649 | 110.7627 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00649 | 110.7627 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00649 | 110.5488 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00729 | 109.6883 | P13:014-115:GRIS:GSUPGS |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 109.5159 | RIEL - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00605 | 109.3863 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|--|
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 109.345 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 109.345 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00729 | 109.2859 | BASE CASE |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 109.1599 | FORBES - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00598 | 109.1569 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00659 | 109.0248 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00607 | 108.3314 | STORLA - WESSINGTON 230KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00645 | 108.3273 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00633 | 108.1543 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00695 | 108.051 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00643 | 107.3585 | STORLA - WESSINGTON 230KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00608 | 107.305 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00596 | 106.8894 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00659 | 106.3726 | HANLON - STORLA 230KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00644 | 106.3049 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00659 | 106.1587 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00649 | 106.0286 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00647 | 105.9427 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00632 | 105.8898 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00611 | 105.8795 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00611 | 105.8795 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00609 | 105.8364 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00605 | 105.6504 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00632 | 105.6122 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00611 | 105.4375 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00685 | 105.2153 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00695 | 105.1316 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00695 | 105.0034 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00683 | 104.9159 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00647 | 104.8528 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00647 | 104.8528 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00695 | 104.8183 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00646 | 104.8099 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00645 | 104.5819 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00647 | 104.4113 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00659 | 102.1946 | BASE CASE |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00695 | 101.2296 | BASE CASE |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00718 | 117.8632 | RIEL - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00718 | 117.6401 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00718 | 117.6401 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00718 | 117.4308 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00669 | 116.237 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00676 | 115.9592 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00679 | 115.318 | STORLA - WESSINGTON 230KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00729 | 115.2706 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00691 | 114.7342 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00691 | 114.7342 | WATERTN-LNX3345.00 - WATERTOWN 345KV CKT Z |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00691 | 114.7342 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00678 | 114.2438 | HANLON - STORLA 230KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|---|
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00667 | 113.8932 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00715 | 113.3851 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00686 | 113.0036 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00686 | 113.0036 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 113.0033 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00686 | 112.5433 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00676 | 112.3464 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00649 | 109.5966 | RIEL - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00649 | 109.4013 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00649 | 109.4013 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00649 | 109.192 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00729 | 109.0545 | P13:014-115:GRIS:GSUPGS |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00729 | 108.6588 | BASE CASE |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 108.2746 | RIEL - ROSEAU 500KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 108.0933 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 108.0933 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00605 | 108.0544 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 107.9259 | FORBES - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00598 | 107.83 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00659 | 107.7007 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00645 | 107.1103 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00607 | 107.0222 | STORLA - WESSINGTON 230KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00633 | 106.9409 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00695 | 106.8397 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00643 | 106.1615 | STORLA - WESSINGTON 230KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00608 | 106.0178 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00596 | 105.6112 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00644 | 105.1294 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00659 | 105.1054 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00659 | 104.8961 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00649 | 104.7689 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00632 | 104.7089 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00647 | 104.6849 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00611 | 104.637 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00611 | 104.623 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00609 | 104.5808 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00605 | 104.3988 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00632 | 104.3614 | WATERTN-LNX3345.00 - WATERTOWN 345KV CKT Z |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00632 | 104.3614 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00685 | 104.0622 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00695 | 103.9802 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00695 | 103.8546 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00683 | 103.7689 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00647 | 103.7071 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00647 | 103.7071 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00695 | 103.6733 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00646 | 103.6651 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00645 | 103.4417 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00647 | 103.2747 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|---|
| 20SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00659 | 101.0173 | BASE CASE |
| 25SP | 00NR | 3 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00695 | 100.1582 | BASE CASE |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00737 | 126.3159 | P13:230-345:SPS:POTTER_CO.1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00737 | 126.3159 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00737 | 122.5912 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00737 | 119.9397 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.0053 | 108.4823 | P12:230:SPS:K76.1.HITCH.OCLTRE |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.0053 | 108.1667 | OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.0053 | 108.1667 | P13:115-230:SPS:OCHILTREE.1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00597 | 102.8513 | OCHILTREE - TEXAS FARMS SUB 115KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00571 | 102.6422 | P12:230:SPS:K75.1.HITCH.MOORE |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00597 | 100.8942 | SPEARMAN SUB - TEXAS FARMS SUB 115KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hansford County Switch Station - SPEARMAN INTERCHANGE 115KV CKT 1 | 158.4 | 0.00554 | 100.6091 | BORDER 7345.00 - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00737 | 118.8381 | P13:230-345:SPS:POTTER_CO.1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00737 | 118.8381 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00737 | 115.2063 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.00737 | 112.5137 | G14_038T 345.00 - Hitchland Interchange 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.0053 | 101.1497 | P12:230:SPS:K76.1.HITCH.OCLTRE |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.0053 | 100.8992 | OCHILTREE (H TP80219401) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE - Hansford County Switch Station 115KV CKT 1 | 159.7 | 0.0053 | 100.8992 | P13:115-230:SPS:OCHILTREE.1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 | 641.3 | 0.01974 | 106.2013 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 | 641.3 | 0.01974 | 106.2013 | P13:230-345:SPS:HITCHLAND.2 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 | 643.3 | 0.01974 | 105.8089 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 | 643.3 | 0.01974 | 105.8089 | P13:230-345:SPS:HITCHLAND.2 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 | 287.4 | 0.00768 | 106.3402 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 | 287.4 | 0.00768 | 106.3402 | P13:115-230:SPS:HITCHLAND.2 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 | 288 | 0.00768 | 106.0144 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 | 288 | 0.00768 | 106.0144 | P13:115-230:SPS:HITCHLAND.2 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 | 640.5 | 0.02018 | 108.6841 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 | 640.5 | 0.02018 | 108.6841 | P13:230-345:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 | 643.1 | 0.02018 | 108.1825 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | Hitchland Interchange (SIEM 8743067) 345/230/13.2KV TRANSFORMER CKT 2 | 643.1 | 0.02018 | 108.1825 | P13:230-345:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 | 287.4 | 0.00768 | 106.3402 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 | 287.4 | 0.00768 | 106.3402 | P13:115-230:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 | 288 | 0.00768 | 106.0144 | HITCHLAND INTERCHANGE (H TP80148301) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | HITCHLAND INTERCHANGE (UPDATE LATER) 230/115/13.2KV TRANSFORMER CKT 2 | 288 | 0.00768 | 106.0144 | P13:115-230:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | JONES STATION - TUCO INTERCHANGE 230KV CKT 1 | 342.8 | 0.00798 | 109.7601 | P12:230:SPS:K24.1.TUCO.CRLSLE |
| 17G | 09ALL | 3 | TO->FROM | G15_100 | JONES STATION - TUCO INTERCHANGE 230KV CKT 1 | 343.6 | 0.01184 | 100.457 | JONES STATION 230/22.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_100 | NEOSHO - SUB 452 - RIVERTON 161KV CKT 1 | 222.6 | 0.00053 | 101.1982 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 3 | FROM->TO | G15_100 | NEOSHO - SUB 452 - RIVERTON 161KV CKT 1 | 222.3 | 0.00052 | 100.4292 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | NORTH PLATTE - STOCKVILLE 115KV CKT 1 | 136.6 | 0.01222 | 101.0003 | GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1 |
| 17SP | 09ALL | 3 | FROM->TO | G15_100 | OTTUMWA - WAPELLO COUNTY NO1 + NO 2 + N 161KV CKT 1 | 268 | 0.01571 | 108.7631 | OTTUMWA - WAPELLO COUNTY NO1 + NO 2 + N 161KV CKT 2 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02884 | 124.8367 | BORDER 7345.00 - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02884 | 122.2551 | BORDER 7345.00 - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02884 | 122.1191 | BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02451 | 121.785 | G14-074T 345.00 - TUCO INTERCHANGE 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|---------|-----------------------|--|
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02825 | 121.4084 | P12:230:SPS:K75.1.HITCH.MOORE |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02451 | 119.9672 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02884 | 119.598 | BORDER 7345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02451 | 119.2534 | G14-074T 345.00 - TUCO INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02825 | 118.9031 | P12:230:SPS:K75.1.HITCH.MOORE |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02451 | 117.4939 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 116.4798 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02334 | 116.1221 | P12:230:AEPW-SPS:SWEETWT6:WHEELER 6 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02334 | 116.1221 | P12:230:SPS:K74.1.WEELR.SWT(520) |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02334 | 116.1221 | STATELINE INTERCHANGE - STLN-DEMAR6 230KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02334 | 116.1221 | STLN-DEMAR6 - SWEETWATER 230KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 116.0046 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 115.5056 | Golden Spread REC - Mustang Interchange 230 kV Generation Bus - MUSTANG STATION 230KV CKT @1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 114.5973 | G14_038T 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 114.5469 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 114.5469 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 114.5469 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 114.1566 | Golden Spread REC - Mustang Interchange 230 kV Generation Bus - MUSTANG STATION 230KV CKT @1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 114.0842 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02334 | 113.7344 | P12:230:AEPW-SPS:SWEETWT6:WHEELER 6 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02334 | 113.7344 | P12:230:SPS:K74.1.WEELR.SWT(520) |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02334 | 113.7344 | STATELINE INTERCHANGE - STLN-DEMAR6 230KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02334 | 113.7344 | STLN-DEMAR6 - SWEETWATER 230KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 113.6017 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 113.3487 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 113.3303 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 113.3303 | GRAND AVENUE WEST - NORTHEAST 161KV CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 113.1316 | Golden Spread REC - Mustang Interchange 230 kV Generation Bus - MUSTANG STATION 230KV CKT @1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 112.2256 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 112.1943 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 112.1943 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|---|------------|----------|-----------------------|---|
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 112.1943 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 111.8127 | P13:230-345:SPS:HITCHLAND.1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 111.0048 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 111.0048 | Hitchland Interchange (H TB80155502) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 111.0048 | P12:230:SPS:K76.1.HITCH.OCLTRE |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 544.6 | 0.02414 | 103.0292 | BASE CASE |
| 25SP | 09ALL | 3 | FROM->TO | G15_100 | POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1 | 557 | 0.02414 | 100.933 | BASE CASE |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1 | 395.5 | 0.01091 | 106.4499 | ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1 |
| 20SP | 09ALL | 3 | TO->FROM | G15_100 | RUSSELLVILLE EAST - RUSSELLVILLE NORTH 161KV CKT 1 | 395.5 | 0.01118 | 102.7412 | ARKANSAS NUCLEAR ONE - FT SMITH 500KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 494.8 | 0.0198 | 107.3112 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 17SP | 00NR | 3 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 494.8 | 0.0198 | 107.3112 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 495.4 | 0.02017 | 100.529 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 20SP | 00NR | 3 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 495.4 | 0.02017 | 100.529 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 478.7 | 0.0198 | 110.9204 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 478.7 | 0.0198 | 110.9204 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.2 | 0.0198 | 110.8464 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.2 | 0.0198 | 110.8464 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.4 | 0.02017 | 103.8841 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.4 | 0.02017 | 103.8841 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.02017 | 103.8616 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 20SP | 00NR | 3 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.02017 | 103.8616 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.3 | 0.01992 | 103.3362 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.3 | 0.01992 | 103.3362 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.01992 | 103.2924 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.01992 | 103.2924 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 09ALL | 3 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 55.1 | 0.01314 | 106.1285 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 20SP | 09ALL | 3 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 55.6 | 0.01314 | 104.9942 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 54.8 | 0.00949 | 102.808 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 55.4 | 0.00949 | 101.5141 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 3 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 54.9 | 0.00959 | 100.0925 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1 | 350.5 | 0.00595 | 101.5161 | TUCO INTERCHANGE - YOAKUM_345 345.00 345KV CKT 1 |
| 17SP | 09ALL | 3 | FROM->TO | G15_100 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 184.3 | 0.00506 | 106.7321 | P12:230:SPS:K03.1.SUNDWN.WOLFTH |
| 17SP | 09ALL | 3 | FROM->TO | G15_100 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 186 | 0.00506 | 105.4877 | P12:230:SPS:K03.1.SUNDWN.WOLFTH |
| 17SP | 00NR | 3 | FROM->TO | G15_100 | SWISSVALE - WEST GARDNER 345KV CKT 1 | 714.1 | 0.01888 | 103.3701 | G15074_T 345.00 - HOYT 345KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.02159 | 122.3774 | TUCO INTERCHANGE - TUCO_2 345.00 345KV CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.00987 | 116.6917 | P13:230-345:SPS:TUCO_INT.1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.00987 | 116.6917 | TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.00957 | 109.369 | P13:230-345:SPS:TUCO_INT.2 |
| 25SP | 09ALL | 3 | TO->FROM | G15_100 | TUCO INTERCHANGE - TUCO_2 230.00 230KV CKT 1 | 337.8 | 0.00957 | 109.369 | TUCO INTERCHANGE (SIEM 8743066) 345/230/13.2KV TRANSFORMER CKT 2 |
| 17G | 09ALL | 3 | FROM->TO | G15_100 | WICHITA (WICH TX-12) 345/138/13.8KV TRANSFORMER CKT 1 | 423.7 | 0.00992 | 100.2573 | WICHITA (WICH TX-11) 345/138/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 4 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.9 | -0.00182 | 110.5473 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 4 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.9 | -0.00182 | 110.3263 | GERALD GENTLEMAN STATION 230/23.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 4 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.9 | -0.00182 | 110.2385 | GERALD GENTLEMAN STATION 345/24.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 4 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.3 | -0.00182 | 108.2267 | GERALD GENTLEMAN STATION 230/23.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 4 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.3 | -0.00182 | 108.215 | GERALD GENTLEMAN STATION 345/24.0KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|----------|-----------------------|--|
| 20WP | 00NR | 4 | FROM->TO | G15_100 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 | 788.3 | -0.00182 | 108.1794 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00718 | 118.6444 | RIEL - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00718 | 118.4316 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00718 | 118.4316 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00718 | 118.2047 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00669 | 117.0051 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00676 | 116.7084 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00679 | 116.0566 | STORLA - WESSINGTON 230KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00729 | 116.0083 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00691 | 115.4771 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00691 | 115.4771 | WATERTN-LNX3345.00 - WATERTOWN 345KV CKT Z |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00691 | 115.4771 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00678 | 114.9785 | HANLON - STORLA 230KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00667 | 114.6079 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00715 | 114.1055 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00686 | 113.7177 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00686 | 113.7035 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00684 | 113.7031 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00686 | 113.2355 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00676 | 113.0352 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00649 | 110.9623 | RIEL - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00649 | 110.7627 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00649 | 110.7627 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00649 | 110.5488 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00729 | 109.6883 | P13:014-115:GRIS:GSUPGS |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 109.5159 | RIEL - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00605 | 109.3863 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 109.345 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 109.345 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 705.1 | 0.00729 | 109.2859 | BASE CASE |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00684 | 109.1599 | FORBES - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00598 | 109.1569 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00659 | 109.0248 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00607 | 108.3314 | STORLA - WESSINGTON 230KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00645 | 108.3273 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00633 | 108.1543 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00695 | 108.051 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00643 | 107.3585 | STORLA - WESSINGTON 230KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00608 | 107.305 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00596 | 106.8894 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00659 | 106.3726 | HANLON - STORLA 230KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00644 | 106.3049 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00659 | 106.1587 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00649 | 106.0286 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00647 | 105.9427 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00632 | 105.8898 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00611 | 105.8795 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00611 | 105.8795 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00609 | 105.8364 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|--|
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00605 | 105.6504 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00632 | 105.6122 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00611 | 105.4375 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00685 | 105.2153 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00695 | 105.1316 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00695 | 105.0034 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00683 | 104.9159 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00647 | 104.8528 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00647 | 104.8528 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00695 | 104.8183 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00646 | 104.8099 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00645 | 104.5819 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00647 | 104.4113 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 701.3 | 0.00659 | 102.1946 | BASE CASE |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | GRPRAR1-LNX3345.00 - HOLT.CO3 345.00 345KV CKT 1 | 702.2 | 0.00695 | 101.2296 | BASE CASE |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00718 | 117.8632 | RIEL - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00718 | 117.6401 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00718 | 117.6401 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00718 | 117.4308 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00669 | 116.237 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00676 | 115.9592 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00679 | 115.318 | STORLA - WESSINGTON 230KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00729 | 115.2706 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00691 | 114.7342 | P12:345:UMZW:# 1747 #: WT2 IN SD. WT2-WHT LINE FAULT |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00691 | 114.7342 | WATERTN-LNX3345.00 - WATERTOWN 345KV CKT Z |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00691 | 114.7342 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00678 | 114.2438 | HANLON - STORLA 230KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00667 | 113.8932 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00715 | 113.3851 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00686 | 113.0036 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00686 | 113.0036 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 113.0033 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00686 | 112.5433 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00676 | 112.3464 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00649 | 109.5966 | RIEL - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00649 | 109.4013 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00649 | 109.4013 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00649 | 109.192 | FORBES - ROSEAU 500KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00729 | 109.0545 | P13:014-115:GRIS:GSUPGS |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00729 | 108.6588 | BASE CASE |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 108.2746 | RIEL - ROSEAU 500KV CKT 1 |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 108.0933 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 108.0933 | ROSEAU - ROSEAUM 2 500.00 500KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00605 | 108.0544 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00684 | 107.9259 | FORBES - ROSEAU 500KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00598 | 107.83 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00659 | 107.7007 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00645 | 107.1103 | KELLY - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00607 | 107.0222 | STORLA - WESSINGTON 230KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|---|
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00633 | 106.9409 | P12:230:UMZB:# 116 #: ST IN SD. WSG-ST-VH |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00695 | 106.8397 | G15_023_1 345.00 - HOLT.CO3 345.00 345KV CKT 1 |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00643 | 106.1615 | STORLA - WESSINGTON 230KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00608 | 106.0178 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00596 | 105.6112 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00644 | 105.1294 | HANLON - STORLA 230KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00659 | 105.1054 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00659 | 104.8961 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00649 | 104.7689 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00632 | 104.7089 | P12:230:UMZW:# 737 #: FT IN SD. FT-LET LINE FAULT |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00647 | 104.6849 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00611 | 104.637 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00611 | 104.623 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00609 | 104.5808 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00605 | 104.3988 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00632 | 104.3614 | WATERTN-LNX3345.00 - WATERTOWN 345KV CKT Z |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00632 | 104.3614 | WATERTN-LNX3345.00 - WHITE 345KV CKT 1 |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00685 | 104.0622 | BUFFALO - JAMESTOWN 345KV CKT 1 |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00695 | 103.9802 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00695 | 103.8546 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00683 | 103.7689 | G09_001IST 345.00 - WATERTOWN 345KV CKT 1 |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00647 | 103.7071 | FT RANDAL - G12_009IST 230.00 230KV CKT 1 |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00647 | 103.7071 | P12:230:UMZW:# 739 #: FT IN SD. FT-LP LINE FAULT |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00695 | 103.6733 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00646 | 103.6651 | P12:230:UMZW:# 738 #: FT IN SD. FT-FR LINE FAULT |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00645 | 103.4417 | FT RANDAL - MEADOWGROVE4230.00 230KV CKT 1 |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00647 | 103.2747 | G12_009IST 230.00 - LAKE PLATT 230KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.7 | 0.00659 | 101.0173 | BASE CASE |
| 25SP | 00NR | 4 | TO->FROM | G15_100 | GRPRAR1-LNX3345.00 - YANKTON 345KV CKT Z | 716.9 | 0.00695 | 100.1582 | BASE CASE |
| 16WP | 00NR | 4 | FROM->TO | G15_100 | NEOSHO - SUB 452 - RIVERTON 161KV CKT 1 | 222.6 | 0.00053 | 101.1982 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 20WP | 00NR | 4 | FROM->TO | G15_100 | NEOSHO - SUB 452 - RIVERTON 161KV CKT 1 | 222.3 | 0.00052 | 100.4292 | COOPER 345/22.0KV TRANSFORMER CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 494.8 | 0.0198 | 107.3112 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 17SP | 00NR | 4 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 494.8 | 0.0198 | 107.3112 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 495.4 | 0.02017 | 100.529 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 20SP | 00NR | 4 | TO->FROM | G15_100 | SIDNEY - SIDNEY TRANSFORMER 230KV CKT 1 | 495.4 | 0.02017 | 100.529 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 478.7 | 0.0198 | 110.9204 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 478.7 | 0.0198 | 110.9204 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.2 | 0.0198 | 110.8464 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 17SP | 00NR | 4 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.2 | 0.0198 | 110.8464 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.4 | 0.02017 | 103.8841 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.4 | 0.02017 | 103.8841 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.02017 | 103.8616 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 20SP | 00NR | 4 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.02017 | 103.8616 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.3 | 0.01992 | 103.3362 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.3 | 0.01992 | 103.3362 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.01992 | 103.2924 | KEYSTONE - SIDNEY1-LNX3345.00 345KV CKT 1 |
| 25SP | 00NR | 4 | FROM->TO | G15_100 | SIDNEY (SDQ KV2A) 345/230/13.8KV TRANSFORMER CKT 1 | 479.6 | 0.01992 | 103.2924 | SIDNEY - SIDNEY1-LNX3345.00 345KV CKT Z |
| 16WP | 00NR | 4 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 54.8 | 0.00949 | 102.808 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 4 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 55.4 | 0.00949 | 101.5141 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|---------|--|------------|---------|-----------------------|---|
| 20WP | 00NR | 4 | FROM->TO | G15_100 | STERLING (STERLING T1) 115/69/13.8KV TRANSFORMER CKT 1 | 54.9 | 0.00959 | 100.0925 | SUB 1263 BROCK (S1263 T1) 161/69/13.8KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 226.2 | 0.04082 | 111.316 | CIMARRON - MINCO 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 226.2 | 0.04082 | 102.7837 | GRACEMONT - MINCO 345KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 284 | 0.03357 | 100.5834 | CIMARRON - MINCO 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01651 | 155.6713 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01389 | 154.9857 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01651 | 151.1567 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01389 | 150.5214 | DBL-BVR-G1114 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.6 | 0.0166 | 129.794 | DBL-G1114-WWRD |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.6 | 0.0166 | 125.5022 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01165 | 119.6339 | DBL-OTA-BVR |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01396 | 119.5269 | DBL-OTA-BVR |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.9 | 0.01765 | 119.0533 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01109 | 118.6643 | P12:345:SPS:FINNEY-HITCHLAND |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01109 | 118.6643 | P12:345:SPS:J07.1.FINN.HITCH |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01109 | 118.6643 | P12:345:SPS:WALKEMEYER-HITCHLAND |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01165 | 117.1786 | DBL-HTCH-OTA |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01396 | 117.0438 | DBL-HTCH-OTA |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.9 | 0.01765 | 114.5757 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.0098 | 113.2857 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.0128 | 113.2551 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.0128 | 111.9007 | FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01164 | 110.595 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00995 | 109.5714 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01178 | 108.1878 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.0098 | 107.9286 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.0101 | 105.8571 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01164 | 105.4032 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00977 | 105.0107 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00977 | 105.0107 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.0101 | 104.7411 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00945 | 104.1697 | CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00945 | 104.1697 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00945 | 104.1697 | P13:138-230:AEPW:ELKCTY-4 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00922 | 103.1536 | DBL-TGA-MATT |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01119 | 102.902 | CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01119 | 102.902 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01119 | 102.902 | P13:138-230:AEPW:ELKCTY-4 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01155 | 102.8713 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01155 | 102.8713 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00939 | 102.1286 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.0098 | 101.6786 | G14-074T 345.00 - TUCO INTERCHANGE 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.4 | 0.01651 | 115.1641 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.7 | 0.01389 | 112.8128 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.4 | 0.01651 | 111.959 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.7 | 0.01389 | 109.623 | DBL-BVR-G1114 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE (WH 7001795) 230/115/13.2KV TRANSFORMER CKT 1 | 163.4 | 0.19451 | 106.1704 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE (WH 7001795) 230/115/13.2KV TRANSFORMER CKT 1 | 164.2 | 0.19451 | 105.5922 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE (WH 7001795) 230/115/13.2KV TRANSFORMER CKT 1 | 164.6 | 0.19041 | 103.2797 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | BUSHLAND INTERCHANGE (WH 7001795) 230/115/13.2KV TRANSFORMER CKT 1 | 165.2 | 0.19041 | 102.7835 | P12:230:SPS:K59.1.POTTER.BSHLND |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 16WP | 06ALL | 0 | TO->FROM | G15_101_1 | CANYON WEST SUB - DAWN SUB 115KV CKT 1 | 104.9 | 0.13578 | 103.801 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | CASTRO COUNTY INTERCHANGE - NEWHART 115KV CKT 1 | 169.8 | 0.00644 | 104.6205 | P12:115:SPS:T04.1.DFSMTH.CASTRO |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | CASTRO COUNTY INTERCHANGE - NEWHART 115KV CKT 1 | 170.3 | 0.00736 | 101.7419 | P12:115:SPS:T04.1.DFSMTH.CASTRO |
| 16WP | 00NR | 0 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00056 | 107.3304 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00056 | 107.3304 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00056 | 107.3227 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00056 | 107.2308 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00056 | 107.1914 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00056 | 106.9151 | HOBBS INTERCHANGE 230/18.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 716.5 | 0.09748 | 100.2087 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CIMARRON RIVER PLANT - WALKEMEYER 115KV CKT 1 | 148.1 | 0.03035 | 101.4072 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.01651 | 124.8636 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.01651 | 121.7483 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.3 | 0.01389 | 119.4924 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.3 | 0.01389 | 116.382 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01651 | 129.1086 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01651 | 126.0222 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01389 | 122.5827 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01389 | 119.4963 | DBL-BVR-G1114 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.0166 | 112.9183 | DBL-G1114-WWRD |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.0166 | 109.8367 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01396 | 104.3988 | DBL-OTA-BVR |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.01765 | 103.9075 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01396 | 102.7012 | DBL-HTCH-OTA |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 52.7 | 0.01013 | 101.767 | BASE CASE |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.01765 | 100.6718 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.0128 | 100.1111 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 141.8 | 0.02447 | 139.6846 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 141.8 | 0.02447 | 130.5168 | DBL-THIS-G1524 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.7 | 0.02517 | 126.728 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.8 | 0.0277 | 121.2521 | DBL-G1524-WICH |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.7 | 0.02517 | 117.4778 | DBL-THIS-G1524 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.8 | 0.0277 | 111.3081 | DBL-THIS-G1524 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.02447 | 194.3977 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.02447 | 182.1104 | DBL-THIS-G1524 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109 | 0.02601 | 180.0389 | DBL-G1524-WICH |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.7 | 0.02212 | 179.771 | DBL-G1524-WICH |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.2 | 0.02517 | 173.0507 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.7 | 0.0277 | 169.2254 | DBL-G1524-WICH |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109 | 0.02601 | 166.6444 | DBL-THIS-G1524 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.7 | 0.02212 | 166.462 | DBL-THIS-G1524 |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.2 | 0.02517 | 160.9435 | DBL-THIS-G1524 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.7 | 0.0277 | 156.1619 | DBL-THIS-G1524 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 107 | 0.02731 | 149.8639 | DBL-G1524-WICH |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 107 | 0.02731 | 136.0322 | DBL-THIS-G1524 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01329 | 106.4174 | DBL-TGA-MATT |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01273 | 104.4 | G1524G1525 345.00 - THISTLE7 345.00 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01273 | 104.4 | G1524G1525 345.00 - THISTLE7 345.00 345KV CKT 2 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01329 | 102.3531 | DBL-G1151-TGA |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|--|
| 25SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.9 | 0.02878 | 101.3714 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01329 | 101.2189 | DBL-WWRD-G1151 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.0193 | 116.6989 | ONEY - WASHITA 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03512 | 116.6526 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03505 | 113.9722 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.0193 | 113.8531 | BINGER NIJECT - ONEY 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01935 | 113.6143 | ONEY - WASHITA 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03099 | 112.9474 | DBL-TGA-MATT |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03055 | 111.4195 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01935 | 111.0961 | BINGER NIJECT - ONEY 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03093 | 110.4058 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03046 | 109.6693 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.0193 | 109.6175 | BINGER NIJECT - SICKLES 138KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02849 | 109.6129 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.03369 | 109.4778 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.0351 | 108.9769 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03099 | 108.7724 | DBL-G1151-TGA |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03099 | 107.5133 | DBL-WWRD-G1151 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01935 | 107.12 | BINGER NIJECT - SICKLES 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03093 | 106.2364 | DBL-G1151-TGA |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03055 | 105.7866 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02535 | 105.2969 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03093 | 104.979 | DBL-WWRD-G1151 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02967 | 104.7271 | DBL-TGA-MATT |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 187 | 0.03594 | 104.2383 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03046 | 104.0439 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.03107 | 103.7879 | DBL-TGA-MATT |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03097 | 103.0038 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.0193 | 102.3375 | HYDRO - SICKLES 138KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.03043 | 102.0415 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02925 | 101.9936 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.0309 | 101.6651 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02967 | 101.4045 | DBL-G1151-TGA |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02472 | 100.9822 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01935 | 100.6919 | HYDRO - SICKLES 138KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02535 | 100.6345 | DBL-G1151-TGA |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02967 | 100.3863 | DBL-WWRD-G1151 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 134.8 | 0.02498 | 100.1448 | BASE CASE |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00517 | 114.3421 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_1 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00547 | 110.8783 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00517 | 109.874 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_1 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00547 | 106.4102 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.4 | 0.00517 | 122.4489 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.3 | 0.00547 | 119.0546 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.4 | 0.00517 | 118.0186 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.3 | 0.00547 | 114.4034 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.0053 | 112.2359 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00525 | 112.2051 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.0053 | 106.5949 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00525 | 106.5641 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 48 | 0.0053 | 101.4 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.4 | 0.01104 | 101.6114 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.3 | 0.01116 | 100.2839 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.4 | 0.01104 | 100.2621 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_1 | COULTER INTERCHANGE - HILLSIDE 115KV CKT 1 | 155.6 | 0.19451 | 105.3229 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | COULTER INTERCHANGE - HILLSIDE 115KV CKT 1 | 156.5 | 0.19041 | 101.7242 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 25SP | 00NR | 0 | TO->FROM | G15_101_1 | COX INTERCHANGE - HALE CO INTERCHANGE 115KV CKT 1 | 95.6 | 0.01231 | 102.4628 | KRESS INTERCHANGE - KRESS_RURAL3115.00 115KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1 | 92.1 | 0.02304 | 101.6608 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_1 | DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1 | 105.2 | 0.13578 | 107.2122 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1 | 105.4 | 0.13578 | 111.5628 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1 | 96 | 0.13555 | 107.0125 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1 | 95.9 | 0.13536 | 100.1944 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 47.6 | 0.00517 | 128.237 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 47.5 | 0.00547 | 124.448 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 47.6 | 0.00517 | 123.6151 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 38.9 | 0.0053 | 121.7789 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 39 | 0.00525 | 121.4359 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 47.5 | 0.00547 | 119.8164 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 38.9 | 0.0053 | 116.1234 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 39 | 0.00525 | 115.7949 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 48 | 0.0053 | 107.2333 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 48 | 0.0053 | 102.65 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | DUNCAN (DUNCAN) 138/69/13.8KV TRANSFORMER CKT 1 | 71.8 | 0.00517 | 100.7532 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | DUNCAN (DUNCAN) 138/69/13.8KV TRANSFORMER CKT 1 | 71.9 | 0.00517 | 100.3349 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | EARLSBORO 4138.00 - FIXICO TAP 138KV CKT 1 | 96.6 | 0.00553 | 101.1669 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00553 | 111.6775 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00712 | 109.906 | MAUD (MAUD1) 138/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00691 | 108.2045 | P12:138:AEPW:MCALEST4:C-RIVER4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00691 | 108.2045 | P13:345-138:AEPW:C-RIVER7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00682 | 108.2045 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00677 | 106.8297 | FOREST HILL - MAUD 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00595 | 106.414 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00776 | 103.5695 | CLEVELAND - G15066_T 345.00 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00704 | 103.2882 | LTRIVRT2 69.000 - MAUD 69KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00768 | 103.1341 | MAUD (MAUD1) 138/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00776 | 102.8478 | G15066_T 345.00 - SOONER 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00821 | 102.3406 | DBL-THIS-WWRD |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00753 | 102.2755 | EARLSBORO - FIXICO 69KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00706 | 102.2623 | HAMMETT TAP - HAMMETT2 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00808 | 102.2054 | P12:345:AEPW-OKGE:R.S.S.-7:REDBUD7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00753 | 102.1724 | P12:069:OKGE:3TERM34 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00704 | 101.7419 | LTRIVRT2 69.000 - WEWOKA TAP 69KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00727 | 101.6957 | FRANKLIN - FRANKLIN SW 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00706 | 101.4375 | HAMMETT2 - MEEKER 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00695 | 101.4103 | ETNA - PARK LANE 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00745 | 101.3265 | P12:138:AEPW:MCALEST4:C-RIVER4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00745 | 101.3265 | P13:345-138:AEPW:C-RIVER7 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00736 | 101.3265 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00675 | 101.1546 | PARK LANE - SEMINOLE 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00682 | 100.7596 | DBL-WWRD-G1151 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1 | 477.5 | 0.0249 | 100.3719 | P12:345:SPS:J15.1.XRDS.TOLK |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.1 | 0.00663 | 154.3724 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.2 | 0.00796 | 140.116 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 31.1 | 0.00795 | 122.5338 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 31.2 | 0.0083 | 114.7179 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.1 | 0.00663 | 112.2268 | G15085_T 138.00 - LAKE PAULINE 138KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.6 | 0.00816 | 105.8587 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.7 | 0.00817 | 105.4712 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.3 | 0.00663 | 129.3845 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_1 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.2 | 0.00795 | 125.1801 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_1 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.5 | 0.00796 | 119.4166 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_1 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.3 | 0.0083 | 117.6223 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.00663 | 149.9662 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.00796 | 131.9631 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 30.9 | 0.00795 | 116.8544 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 31.1 | 0.0083 | 108.9775 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.00663 | 107.2738 | G15085_T 138.00 - LAKE PAULINE 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.0839 | 116.95 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.0839 | 116.5636 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07342 | 110.3618 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07342 | 110.0046 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.0838 | 109.6751 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.0838 | 109.4693 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.4 | 0.08774 | 108.3536 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.08774 | 108.0813 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.06933 | 105.8701 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.06933 | 105.6766 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07342 | 105.1832 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07342 | 104.8268 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.08625 | 104.0249 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.0687 | 104.0152 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.08625 | 103.9137 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.073 | 103.8378 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.0687 | 103.6862 | DBL-TGA-MATT |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.073 | 103.6267 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.0865 | 103.1918 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.6 | 0.0865 | 103.1717 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07659 | 103.1655 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07659 | 102.8404 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.4 | 0.0768 | 102.3042 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.0768 | 102.052 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.0687 | 101.6491 | DBL-G1151-TGA |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.07543 | 101.5795 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.07543 | 101.4906 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.0687 | 101.3084 | DBL-G1151-TGA |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.0687 | 100.9125 | DBL-WWRD-G1151 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.0687 | 100.5751 | DBL-WWRD-G1151 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | GYPSUM - RUSSELL 69KV CKT 1 | 25.8 | 0.00663 | 141.0512 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | GYPSUM - RUSSELL 69KV CKT 1 | 25.6 | 0.00796 | 116.4469 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | GYPSUM - RUSSELL 69KV CKT 1 | 30.5 | 0.00795 | 103.3049 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 142.5 | 0.02447 | 157.2441 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 142.5 | 0.02447 | 148.1213 | DBL-THIS-G1524 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.02517 | 141.3283 | DBL-G1524-WICH |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.02517 | 132.1739 | DBL-THIS-G1524 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 142.8 | 0.02003 | 114.3608 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 135.9 | 0.02133 | 112.0818 | DBL-G1524-WICH |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.01704 | 111.1737 | DBL-G1524-WICH |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 142.8 | 0.02003 | 106.5176 | DBL-THIS-G1524 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 135.2 | 0.02103 | 104.103 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 135.9 | 0.02133 | 103.9876 | DBL-THIS-G1524 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.01704 | 103.347 | DBL-THIS-G1524 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | HITCHLAND INTERCHANGE - TEXAS COUNTY INTERCHANGE 115KV CKT 1 | 159.6 | 0.00693 | 103.2351 | P12:115:SPS:W09.2.HITCH.TXSCO |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_1 | HITCHLAND INTERCHANGE - TEXAS COUNTY INTERCHANGE 115KV CKT 1 | 159.7 | 0.00721 | 101.0209 | P12:115:SPS:W09.2.HITCH.TXSCO |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | MUSTANG STATION (ENRCO 136161) 230/115/13.2KV TRANSFORMER CKT 1 | 283.2 | 0.02033 | 106.5604 | P12:230:SPS:K69.1.MUSTG.SEMINLE |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | MUSTANG STATION (ENRCO 136161) 230/115/13.2KV TRANSFORMER CKT 1 | 286.6 | 0.02033 | 105.4708 | P12:230:SPS:K69.1.MUSTG.SEMINLE |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01104 | 123.2495 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01104 | 121.9231 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01073 | 121.3524 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01116 | 121.0755 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01073 | 121.0576 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01483 | 120.2352 | CIMARRON - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01104 | 120.2281 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0108 | 119.8318 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01116 | 119.8218 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0108 | 119.5369 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01498 | 118.5068 | CIMARRON - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01104 | 118.3858 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01116 | 118.1994 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01116 | 116.3558 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01483 | 115.8874 | GRACEMONT - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01498 | 114.1557 | GRACEMONT - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01187 | 109.2475 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01164 | 108.9791 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01199 | 108.7593 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01164 | 107.7272 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01187 | 107.1104 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01135 | 107.0133 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01135 | 106.7187 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01199 | 106.6206 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00988 | 106.4637 | COMANCHE TAP - OMPA-DUNCAN 840 138KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01164 | 105.9599 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.0058 | 104.6367 | P12:138:AEPW:S.W.S.-4:L.E.S.-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00988 | 104.474 | P12:138:AEPW:DUNCAN-4:L.E.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00998 | 104.2738 | COMANCHE TAP - OMPA-DUNCAN 840 138KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01164 | 104.0454 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00988 | 103.9581 | P12:138:AEPW-OMPA:DUNCAN-4:OMDUNCN4 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|--|
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01048 | 102.8852 | DBL-TGA-MATT |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00998 | 102.5038 | P12:138:AEPW:DUNCAN-4:L.E.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00998 | 101.9876 | P12:138:AEPW-OMPA:DUNCAN-4:OMDUNCN4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00591 | 101.7835 | P12:138:AEPW:S.W.S.-4:L.E.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01059 | 101.5793 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01048 | 101.485 | DBL-G1151-TGA |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00923 | 101.3377 | ANADARKO - POCASSETT 138KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.0156 | 101.137 | CIMARRON - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00923 | 101.1166 | P12:138:WFEC:MSL01 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01048 | 101.0429 | DBL-WWRD-G1151 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00923 | 101.0429 | POCASSETT - TUTTLE 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01059 | 100.1782 | DBL-G1151-TGA |
| 25SP | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0114 | 163.7867 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01158 | 155.264 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 20L | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01036 | 154.4997 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 25SP | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00973 | 154.1173 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 20L | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01213 | 152.2263 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 20SP | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00989 | 149.5787 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17SP | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01167 | 147.336 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00526 | 145.6963 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17SP | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01061 | 143.8213 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17G | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01071 | 136.568 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 16WP | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00869 | 135.7619 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 16WP | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.0015 | 135.1438 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 17G | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01177 | 134.416 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 20L | 06NR | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.8 | 0.01075 | 132.4832 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 20L | 06NR | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.8 | 0.01305 | 131.9866 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.0048 | 130.9271 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 20L | 06NR | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.8 | 0.00517 | 130.0027 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 17G | 06NR | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01037 | 125.9627 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17G | 06NR | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0122 | 125.0933 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 20WP | 06ALL | 0 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00857 | 123.2508 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 156.4 | 0.03474 | 109.2312 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 157.6 | 0.03664 | 107.6736 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 156.7 | 0.03669 | 107.0872 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 145.2 | 0.00723 | 105.1207 | P13:115-230:SPS:SEMINOLE.2 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 145.2 | 0.00723 | 105.1207 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 147.4 | 0.00723 | 103.416 | P13:115-230:SPS:SEMINOLE.2 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 147.4 | 0.00723 | 103.416 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 145 | 0.00732 | 106.5909 | P13:115-230:SPS:SEMINOLE.1 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 145 | 0.00732 | 106.5909 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 147.2 | 0.00732 | 104.794 | P13:115-230:SPS:SEMINOLE.1 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 147.2 | 0.00732 | 104.794 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.3 | 0.01467 | 111.175 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 68 | 0.01467 | 110.1777 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 66.7 | 0.01468 | 109.63 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.5 | 0.01468 | 108.627 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 66.9 | 0.01224 | 102.8963 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.5 | 0.01533 | 102.3396 | P12:230:AEPW:ELKCITY6:SWEETWT6 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.6 | 0.01224 | 101.9787 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 68.1 | 0.01533 | 101.5847 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.3 | 0.01233 | 100.6823 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.6 | 0.00928 | 117.1733 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.9 | 0.00939 | 113.5134 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 333.7 | 0.00982 | 108.8573 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.1 | 0.01041 | 104.393 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 334.4 | 0.00991 | 101.3093 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_1 | SILOAM CITY - SILOAM SPRINGS TAP 161KV CKT 1 | 285.9 | 0.00594 | 101.1282 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 179.2 | 0.02356 | 102.4299 | P12:115:SPS:T30.1.LAMB.HOCKLY |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 179.2 | 0.02674 | 101.0701 | P12:230:SPS:K03.1.SUNDWN.WOLFTH |
| 25SP | 00NR | 0 | FROM->TO | G15_101_1 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 182.5 | 0.02356 | 100.3038 | P12:115:SPS:T30.1.LAMB.HOCKLY |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.8 | 0.01006 | 137.2487 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.8 | 0.01006 | 137.2487 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01006 | 137.2043 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01006 | 137.2043 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.01006 | 133.709 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.01006 | 133.709 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01006 | 133.5094 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01006 | 133.5094 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00996 | 124.0362 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00996 | 124.0362 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00996 | 123.9171 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00996 | 123.9171 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.1 | 0.00969 | 122.4135 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.1 | 0.00969 | 122.4135 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.00969 | 122.093 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.00969 | 122.093 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01051 | 119.8122 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01051 | 119.8122 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01051 | 119.7886 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01051 | 119.7886 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.01053 | 116.9391 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.01053 | 116.9391 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.01053 | 116.6394 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.01053 | 116.6394 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01006 | 137.3235 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01006 | 137.3235 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.8 | 0.01006 | 137.2487 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.8 | 0.01006 | 137.2487 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.7 | 0.01006 | 133.709 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.7 | 0.01006 | 133.709 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01006 | 133.6286 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01006 | 133.6286 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00997 | 124.1581 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00997 | 124.1581 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00997 | 123.92 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00997 | 123.92 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.1 | 0.00969 | 122.4135 | P13:069-115:TCEC:TC-TXCOUNTY.2 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.1 | 0.00969 | 122.4135 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.00969 | 122.093 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.00969 | 122.093 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01052 | 119.815 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01052 | 119.815 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01052 | 119.7914 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01052 | 119.7914 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.01053 | 116.9391 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.01053 | 116.9391 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.6 | 0.01053 | 116.7789 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.6 | 0.01053 | 116.7789 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | TUPELO - TUPELO TAP 138KV CKT 1 | 140.6 | 0.0119 | 101.9602 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | WALKEMEYER - WALKTAP3 115.00 115KV CKT 1 | 301.6 | 0.05214 | 108.9568 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | TO->FROM | G15_101_1 | WALKEMEYER - WALKTAP3 115.00 115KV CKT 1 | 301.6 | 0.05214 | 104.5138 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 277.8 | 0.05214 | 118.3634 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.1 | 0.05214 | 117.8121 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 277.8 | 0.05214 | 113.5398 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 0 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.1 | 0.05214 | 113.011 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.8 | 0.061 | 107.4482 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 280 | 0.061 | 107.3714 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.9 | 0.05852 | 105.5894 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.9 | 0.05852 | 105.5894 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.8 | 0.0593 | 100.6905 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 280 | 0.0593 | 100.6186 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 0 | FROM->TO | G15_101_1 | WICHITA (WICH TX-12) 345/138/13.8KV TRANSFORMER CKT 1 | 425.5 | 0.01089 | 100.3087 | WICHITA (WICH TX-11) 345/138/13.8KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 226.3 | 0.04083 | 111.2679 | CIMARRON - MINCO 345KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 226.3 | 0.04083 | 102.7836 | GRACEMONT - MINCO 345KV CKT 1 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 284 | 0.03357 | 100.5834 | CIMARRON - MINCO 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01651 | 155.6713 | DBL-G1114-WWRD |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01389 | 154.9857 | DBL-G1114-WWRD |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01651 | 151.1567 | DBL-BVR-G1114 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01389 | 150.5214 | DBL-BVR-G1114 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.6 | 0.0166 | 129.794 | DBL-G1114-WWRD |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.6 | 0.0166 | 125.5022 | DBL-BVR-G1114 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01165 | 119.6339 | DBL-OTA-BVR |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01396 | 119.5269 | DBL-OTA-BVR |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.9 | 0.01765 | 119.0533 | DBL-G1114-WWRD |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01109 | 118.6643 | P12:345:SPS:FINNEY-HITCHLAND |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01109 | 118.6643 | P12:345:SPS:J07.1.FINN.HITCH |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01109 | 118.6643 | P12:345:SPS:WALKEMEYER-HITCHLAND |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01165 | 117.1786 | DBL-HTCH-OTA |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01396 | 117.0438 | DBL-HTCH-OTA |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.9 | 0.01765 | 114.5757 | DBL-BVR-G1114 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00979 | 113.2804 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.0128 | 113.2551 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.0128 | 111.9007 | FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01164 | 110.595 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00995 | 109.5714 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01178 | 108.1878 | P12:230:AEPW:ELKCITY6:SWEETWT6 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00979 | 107.9232 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01009 | 105.8518 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01164 | 105.4032 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00977 | 104.7875 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00977 | 104.7875 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01009 | 104.7357 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00945 | 103.9464 | CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00945 | 103.9464 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00945 | 103.9464 | P13:138-230:AEPW:ELKCTY-4 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00922 | 103.1536 | DBL-TGA-MATT |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01118 | 102.8966 | CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01118 | 102.8966 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01118 | 102.8966 | P13:138-230:AEPW:ELKCTY-4 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01155 | 102.8713 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01155 | 102.8713 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00938 | 102.1232 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00979 | 101.6732 | G14-074T 345.00 - TUCO INTERCHANGE 345KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.4 | 0.01651 | 115.1641 | DBL-G1114-WWRD |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.7 | 0.01389 | 112.8128 | DBL-G1114-WWRD |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.4 | 0.01651 | 111.959 | DBL-BVR-G1114 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.7 | 0.01389 | 109.623 | DBL-BVR-G1114 |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_1 | CANYON WEST SUB - DAWN SUB 115KV CKT 1 | 105.1 | 0.13577 | 103.7914 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | CASTRO COUNTY INTERCHANGE - NEWHART 115KV CKT 1 | 169.8 | 0.00645 | 104.6219 | P12:115:SPS:T04.1.DFSMTH.CASTRO |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | CASTRO COUNTY INTERCHANGE - NEWHART 115KV CKT 1 | 170.3 | 0.00736 | 101.7419 | P12:115:SPS:T04.1.DFSMTH.CASTRO |
| 16WP | 00NR | 2 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00056 | 107.3304 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00056 | 107.3304 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00056 | 107.3227 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00056 | 107.2308 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00056 | 107.1914 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00056 | 106.9151 | HOBBS INTERCHANGE 230/18.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 716.5 | 0.09748 | 100.2226 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CIMARRON RIVER PLANT - WALKEMEYER 115KV CKT 1 | 148.1 | 0.03035 | 101.4747 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.01651 | 124.8636 | DBL-G1114-WWRD |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.01651 | 121.7483 | DBL-BVR-G1114 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.3 | 0.01389 | 119.4924 | DBL-G1114-WWRD |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.3 | 0.01389 | 116.382 | DBL-BVR-G1114 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01651 | 128.9543 | DBL-G1114-WWRD |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01651 | 125.8679 | DBL-BVR-G1114 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01389 | 122.5827 | DBL-G1114-WWRD |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01389 | 119.4963 | DBL-BVR-G1114 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.0166 | 112.9183 | DBL-G1114-WWRD |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.0166 | 109.8367 | DBL-BVR-G1114 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01396 | 104.3988 | DBL-OTA-BVR |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.01765 | 103.9075 | DBL-G1114-WWRD |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01396 | 102.5469 | DBL-HTCH-OTA |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 52.7 | 0.01013 | 101.5772 | BASE CASE |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.01765 | 100.6718 | DBL-BVR-G1114 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.0128 | 100.1111 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 141.8 | 0.02447 | 139.6846 | DBL-G1524-WICH |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 141.8 | 0.02447 | 130.5168 | DBL-THIS-G1524 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.7 | 0.02517 | 126.728 | DBL-G1524-WICH |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.8 | 0.0277 | 121.2521 | DBL-G1524-WICH |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.7 | 0.02517 | 117.4778 | DBL-THIS-G1524 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.8 | 0.0277 | 111.3081 | DBL-THIS-G1524 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.02447 | 194.3977 | DBL-G1524-WICH |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.02447 | 182.1104 | DBL-THIS-G1524 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109 | 0.02601 | 179.9471 | DBL-G1524-WICH |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.7 | 0.02212 | 179.6799 | DBL-G1524-WICH |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.2 | 0.02517 | 173.1431 | DBL-G1524-WICH |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.7 | 0.0277 | 169.2254 | DBL-G1524-WICH |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109 | 0.02601 | 166.6444 | DBL-THIS-G1524 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.7 | 0.02212 | 166.462 | DBL-THIS-G1524 |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.2 | 0.02517 | 160.9435 | DBL-THIS-G1524 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.7 | 0.0277 | 156.2539 | DBL-THIS-G1524 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 107 | 0.02731 | 149.8639 | DBL-G1524-WICH |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 107 | 0.02731 | 136.0322 | DBL-THIS-G1524 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01329 | 106.3229 | DBL-TGA-MATT |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01273 | 104.4 | G1524G1525 345.00 - THISTLE7 345.00 345KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01273 | 104.4 | G1524G1525 345.00 - THISTLE7 345.00 345KV CKT 2 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01329 | 102.3531 | DBL-G1151-TGA |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.9 | 0.02878 | 101.3714 | DBL-G1524-WICH |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01329 | 101.2189 | DBL-WWRD-G1151 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.0193 | 116.6327 | ONEY - WASHITA 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03512 | 116.5863 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03505 | 113.9722 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.0193 | 113.7869 | BINGER NIJECT - ONEY 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01935 | 113.548 | ONEY - WASHITA 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03099 | 112.9474 | DBL-TGA-MATT |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03055 | 111.4195 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01935 | 111.0961 | BINGER NIJECT - ONEY 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03093 | 110.4058 | DBL-TGA-MATT |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03046 | 109.6693 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.0193 | 109.6175 | BINGER NIJECT - SICKLES 138KV CKT 1 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02849 | 109.5593 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.03369 | 109.4242 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.0351 | 108.9232 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03099 | 108.7724 | DBL-G1151-TGA |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03099 | 107.5133 | DBL-WWRD-G1151 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01935 | 107.12 | BINGER NIJECT - SICKLES 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03093 | 106.2364 | DBL-G1151-TGA |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03055 | 105.7866 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02535 | 105.2433 | DBL-TGA-MATT |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03093 | 104.9128 | DBL-WWRD-G1151 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02967 | 104.6735 | DBL-TGA-MATT |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 187 | 0.03593 | 104.237 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03046 | 104.0439 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.03107 | 103.7342 | DBL-TGA-MATT |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03097 | 102.9376 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.0193 | 102.3375 | HYDRO - SICKLES 138KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.03043 | 102.0415 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02925 | 101.9936 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.0309 | 101.6651 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02967 | 101.3509 | DBL-G1151-TGA |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02472 | 100.9822 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01935 | 100.6919 | HYDRO - SICKLES 138KV CKT 1 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02535 | 100.5809 | DBL-G1151-TGA |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02967 | 100.3327 | DBL-WWRD-G1151 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 134.8 | 0.02498 | 100.1448 | BASE CASE |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00517 | 114.3421 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_1 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00547 | 110.8783 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00517 | 109.874 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_1 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00547 | 106.4102 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.4 | 0.00517 | 122.6599 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.3 | 0.00547 | 119.0546 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.4 | 0.00517 | 118.0186 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.3 | 0.00547 | 114.4034 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.0053 | 112.2359 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00525 | 112.2051 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.0053 | 106.5949 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00525 | 106.5641 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | COMANCHE TAP - TOSCO 69KV CKT 1 | 48 | 0.0053 | 101.6083 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.4 | 0.01104 | 101.6114 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.3 | 0.01116 | 100.2839 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.4 | 0.01104 | 100.2621 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_101_1 | COX INTERCHANGE - HALE CO INTERCHANGE 115KV CKT 1 | 95.6 | 0.0123 | 102.4603 | KRESS INTERCHANGE - KRESS_RURAL3115.00 115KV CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | CURRY COUNTY INTERCHANGE - DEAF SMITH REC-#20 115KV CKT 1 | 92.2 | 0.02304 | 101.659 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_1 | DAWN SUB - Panda Energy Substation Hereford 115KV CKT 1 | 105.3 | 0.13577 | 107.298 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1 | 105.5 | 0.13577 | 111.6443 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1 | 95.9 | 0.13555 | 107.9583 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | DEAF SMITH COUNTY INTERCHANGE - Panda Energy Substation Hereford 115KV CKT 1 | 96 | 0.13536 | 100.5067 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 47.6 | 0.00517 | 128.237 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 47.5 | 0.00547 | 124.448 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 47.6 | 0.00517 | 123.8252 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 38.9 | 0.0053 | 121.7789 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 39 | 0.00525 | 121.4359 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 47.5 | 0.00547 | 119.8164 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 38.9 | 0.0053 | 116.1234 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 39 | 0.00525 | 115.7949 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 48 | 0.0053 | 107.2333 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | DUNCAN - TOSCO 69KV CKT 1 | 48 | 0.0053 | 102.65 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | DUNCAN (DUNCAN) 138/69/13.8KV TRANSFORMER CKT 1 | 71.8 | 0.00517 | 100.7532 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | DUNCAN (DUNCAN) 138/69/13.8KV TRANSFORMER CKT 1 | 71.9 | 0.00517 | 100.3349 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | EARLSBORO 4138.00 - FIXICO TAP 138KV CKT 1 | 96.6 | 0.00553 | 101.1669 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00553 | 111.6775 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00712 | 109.906 | MAUD (MAUD1) 138/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00691 | 108.2045 | P12:138:AEPW:MCALEST4:C-RIVER4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00691 | 108.2045 | P13:345-138:AEPW:C-RIVER7 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|---|
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00682 | 108.2045 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00677 | 106.8297 | FOREST HILL - MAUD 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00595 | 106.414 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00776 | 103.5695 | CLEVELAND - G15066_T 345.00 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00704 | 103.2882 | LTRIVRT2 69.000 - MAUD 69KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00768 | 103.1341 | MAUD (MAUD1) 138/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00776 | 102.8478 | G15066_T 345.00 - SOONER 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00821 | 102.3406 | DBL-THIS-WWRD |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00753 | 102.2755 | EARLSBORO - FIXICO 69KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00706 | 102.2623 | HAMMETT TAP - HAMMETT2 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00808 | 102.2054 | P12:345:AEPW-OKGE:R.S.S.-7:REDBUD7 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00753 | 102.1724 | P12:069:OKGE:3TERM34 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00704 | 101.7419 | LTRIVRT2 69.000 - WEWOKA TAP 69KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00727 | 101.6957 | FRANKLIN - FRANKLIN SW 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00706 | 101.4375 | HAMMETT2 - MEEKER 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00695 | 101.4103 | ETNA - PARK LANE 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00745 | 101.3265 | P12:138:AEPW:MCALEST4:C-RIVER4 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00745 | 101.3265 | P13:345-138:AEPW:C-RIVER7 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00736 | 101.3265 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00675 | 101.1546 | PARK LANE - SEMINOLE 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00682 | 100.7596 | DBL-WWRD-G1151 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | EDDY COUNTY INTERCHANGE - EDDY_NORTH 6230.00 230KV CKT @1 | 477.5 | 0.0249 | 100.3719 | P12:345:SPS:J15.1.XRDS.TOLK |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.1 | 0.00663 | 154.3724 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.2 | 0.00796 | 140.116 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 31.1 | 0.00795 | 122.2122 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 31.2 | 0.0083 | 114.7179 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.1 | 0.00663 | 111.8437 | G15085_T 138.00 - LAKE PAULINE 138KV CKT 1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.6 | 0.00816 | 105.4827 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.7 | 0.00817 | 105.4712 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.3 | 0.00663 | 129.0749 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_1 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.2 | 0.00795 | 125.1801 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_1 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.5 | 0.00796 | 119.1089 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_1 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.3 | 0.0083 | 117.3127 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.00663 | 149.5815 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.00796 | 131.5785 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 30.9 | 0.00795 | 116.5307 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 31.1 | 0.0083 | 108.6559 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.00663 | 106.8892 | G15085_T 138.00 - LAKE PAULINE 138KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.0839 | 116.9054 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.0839 | 116.4969 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07342 | 110.3618 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07342 | 109.9824 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.0838 | 109.6305 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.0838 | 109.4249 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.4 | 0.08774 | 108.3536 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.08774 | 108.0813 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.06933 | 105.8478 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.06933 | 105.6322 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07342 | 105.1609 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|--|
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07342 | 104.8268 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.08625 | 104.0027 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.06869 | 103.97 | DBL-TGA-MATT |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.08625 | 103.9137 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.073 | 103.8155 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.06869 | 103.6413 | DBL-TGA-MATT |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.073 | 103.6267 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.08649 | 103.1913 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.6 | 0.08649 | 103.1489 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07659 | 103.1209 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07659 | 102.7737 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.4 | 0.0768 | 102.2819 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.0768 | 102.052 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.06869 | 101.6039 | DBL-G1151-TGA |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.07543 | 101.5795 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.07543 | 101.4684 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.06869 | 101.2635 | DBL-G1151-TGA |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.06869 | 100.8673 | DBL-WWRD-G1151 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.06869 | 100.5301 | DBL-WWRD-G1151 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | GYPSUM - RUSSELL 69KV CKT 1 | 25.8 | 0.00663 | 140.6636 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | GYPSUM - RUSSELL 69KV CKT 1 | 25.6 | 0.00796 | 116.4469 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | GYPSUM - RUSSELL 69KV CKT 1 | 30.5 | 0.00795 | 103.3049 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 142.5 | 0.02447 | 157.2441 | DBL-G1524-WICH |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 142.5 | 0.02447 | 148.1213 | DBL-THIS-G1524 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.02517 | 141.3283 | DBL-G1524-WICH |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.02517 | 132.1739 | DBL-THIS-G1524 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 142.8 | 0.02003 | 114.3608 | DBL-G1524-WICH |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 135.9 | 0.02133 | 112.0818 | DBL-G1524-WICH |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.01704 | 111.1038 | DBL-G1524-WICH |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 142.8 | 0.02003 | 106.5176 | DBL-THIS-G1524 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 135.2 | 0.02103 | 104.103 | DBL-G1524-WICH |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 135.9 | 0.02133 | 103.9876 | DBL-THIS-G1524 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.01704 | 103.347 | DBL-THIS-G1524 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | HITCHLAND INTERCHANGE - TEXAS COUNTY INTERCHANGE 115KV CKT 1 | 159.6 | 0.00693 | 103.2977 | P12:115:SPS:W09.2.HITCH.TXSCO |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_1 | HITCHLAND INTERCHANGE - TEXAS COUNTY INTERCHANGE 115KV CKT 1 | 159.7 | 0.00721 | 101.0209 | P12:115:SPS:W09.2.HITCH.TXSCO |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | MUSTANG STATION (ENRCO 136161) 230/115/13.2KV TRANSFORMER CKT 1 | 283.2 | 0.02033 | 106.5604 | P12:230:SPS:K69.1.MUSTG.SEMINLE |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | MUSTANG STATION (ENRCO 136161) 230/115/13.2KV TRANSFORMER CKT 1 | 286.6 | 0.02033 | 105.4708 | P12:230:SPS:K69.1.MUSTG.SEMINLE |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01104 | 123.2495 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01104 | 121.9231 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01073 | 121.3524 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01116 | 121.0755 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01073 | 120.9839 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01483 | 120.2352 | CIMARRON - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01104 | 120.2281 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0108 | 119.8318 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01116 | 119.8218 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.0108 | 119.5369 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01498 | 118.5068 | CIMARRON - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01104 | 118.3858 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|--|
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01116 | 118.1994 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01116 | 116.3558 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01483 | 115.8874 | GRACEMONT - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01498 | 114.1557 | GRACEMONT - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01187 | 109.2475 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01164 | 108.9791 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01199 | 108.7593 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01164 | 107.7272 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01187 | 107.1104 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01135 | 107.0133 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01135 | 106.7187 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01199 | 106.6206 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00988 | 106.4637 | COMANCHE TAP - OMPA-DUNCAN 840 138KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01164 | 105.9599 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.0058 | 104.6367 | P12:138:AEPW:S.W.S.-4:L.E.S.-4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00988 | 104.474 | P12:138:AEPW:DUNCAN-4:L.E.S.-4 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00998 | 104.2738 | COMANCHE TAP - OMPA-DUNCAN 840 138KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01164 | 104.0454 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00988 | 103.9581 | P12:138:AEPW-OMPA:DUNCAN-4:OMDUNCN4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01048 | 102.8852 | DBL-TGA-MATT |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00998 | 102.5038 | P12:138:AEPW:DUNCAN-4:L.E.S.-4 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00998 | 101.9876 | P12:138:AEPW-OMPA:DUNCAN-4:OMDUNCN4 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00591 | 101.7835 | P12:138:AEPW:S.W.S.-4:L.E.S.-4 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01059 | 101.5793 | DBL-TGA-MATT |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01048 | 101.485 | DBL-G1151-TGA |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00923 | 101.3377 | ANADARKO - POCASSETT 138KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.0156 | 101.137 | CIMARRON - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00923 | 101.1166 | P12:138:WFEC:MSL01 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01048 | 101.0429 | DBL-WWRD-G1151 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00923 | 101.0429 | POCASSETT - TUTTLE 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_1 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01059 | 100.1782 | DBL-G1151-TGA |
| 25SP | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0114 | 164.12 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 20SP | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01158 | 155.5973 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 20L | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01036 | 154.4997 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 25SP | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00973 | 154.1173 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 20L | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.7 | 0.01212 | 152.2182 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 20SP | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00989 | 149.912 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17SP | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01167 | 147.336 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 16WP | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00526 | 145.544 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17SP | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01061 | 143.8213 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 17G | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.01071 | 137.3592 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 16WP | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00154 | 135.7493 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 16WP | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00869 | 135.3093 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 17G | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.01177 | 135.2 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 20L | 06NR | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.8 | 0.01075 | 132.4832 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 20L | 06NR | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.8 | 0.01305 | 131.9866 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 20WP | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.0048 | 130.9271 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 20L | 06NR | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.8 | 0.00523 | 130.051 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 17G | 06NR | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01037 | 125.9627 | P12:230:SPS:K11.1.BSHLND.DFSMTH |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 17G | 06NR | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0122 | 125.0933 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 20WP | 06ALL | 2 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00857 | 123.2508 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 156.4 | 0.03473 | 109.1018 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 157.6 | 0.03662 | 107.5436 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 156.7 | 0.03667 | 106.9565 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 145.2 | 0.00723 | 105.1207 | P13:115-230:SPS:SEMINOLE.2 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 145.2 | 0.00723 | 105.1207 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 147.4 | 0.00723 | 103.416 | P13:115-230:SPS:SEMINOLE.2 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 147.4 | 0.00723 | 103.416 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 145 | 0.00732 | 106.5909 | P13:115-230:SPS:SEMINOLE.1 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 145 | 0.00732 | 106.5909 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 147.2 | 0.00732 | 104.794 | P13:115-230:SPS:SEMINOLE.1 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 147.2 | 0.00732 | 104.794 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.3 | 0.01466 | 111.0229 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 68 | 0.01466 | 110.0271 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 66.7 | 0.01467 | 109.4765 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.5 | 0.01467 | 108.4753 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 66.9 | 0.01224 | 102.7468 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.5 | 0.01533 | 102.1914 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.6 | 0.01224 | 101.8308 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 68 | 0.01533 | 101.5871 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.3 | 0.01233 | 100.6823 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.6 | 0.00928 | 117.1733 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.9 | 0.00939 | 113.5134 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 333.7 | 0.00982 | 108.8573 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.1 | 0.01041 | 104.393 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 334.4 | 0.00992 | 101.3101 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_1 | SILOAM CITY - SILOAM SPRINGS TAP 161KV CKT 1 | 285.9 | 0.00594 | 101.1282 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 179.2 | 0.02356 | 102.4299 | P12:115:SPS:T30.1.LAMB.HOCKLY |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 179.2 | 0.02674 | 101.0701 | P12:230:SPS:K03.1.SUNDWN.WOLFTH |
| 25SP | 00NR | 2 | FROM->TO | G15_101_1 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 182.5 | 0.02356 | 100.3038 | P12:115:SPS:T30.1.LAMB.HOCKLY |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.8 | 0.01006 | 137.2487 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.8 | 0.01006 | 137.2487 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01006 | 137.2043 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01006 | 137.2043 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.01006 | 133.709 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.01006 | 133.709 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01006 | 133.6286 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01006 | 133.6286 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00996 | 124.0362 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00996 | 124.0362 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00996 | 123.9171 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.00996 | 123.9171 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.1 | 0.00969 | 122.2932 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.1 | 0.00969 | 122.2932 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.00969 | 122.093 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.00969 | 122.093 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01051 | 119.8122 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01051 | 119.8122 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 25SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01051 | 119.7886 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01051 | 119.7886 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.01053 | 116.9391 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.01053 | 116.9391 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.01053 | 116.6394 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.01053 | 116.6394 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01006 | 137.3235 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01006 | 137.3235 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.8 | 0.01006 | 137.2487 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.8 | 0.01006 | 137.2487 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.7 | 0.01006 | 133.709 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.7 | 0.01006 | 133.709 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01006 | 133.6286 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01006 | 133.6286 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00997 | 124.1581 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00997 | 124.1581 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00997 | 123.92 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.00997 | 123.92 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.1 | 0.00969 | 122.4135 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.1 | 0.00969 | 122.4135 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.00969 | 122.093 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.00969 | 122.093 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01051 | 119.8122 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01051 | 119.8122 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01051 | 119.7886 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01051 | 119.7886 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.01053 | 116.9391 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.01053 | 116.9391 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.6 | 0.01053 | 116.7789 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_1 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.6 | 0.01053 | 116.7789 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | TUPELO - TUPELO TAP 138KV CKT 1 | 140.6 | 0.0119 | 101.9602 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | WALKEMEYER - WALKTAP3 115.00 115KV CKT 1 | 301.6 | 0.05214 | 108.9568 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 2 | TO->FROM | G15_101_1 | WALKEMEYER - WALKTAP3 115.00 115KV CKT 1 | 301.6 | 0.05214 | 104.5138 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 277.8 | 0.05214 | 118.3274 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.1 | 0.05214 | 117.7763 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 277.8 | 0.05214 | 113.5038 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 2 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.1 | 0.05214 | 112.9751 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.8 | 0.061 | 107.4482 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 280 | 0.061 | 107.3714 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.9 | 0.05852 | 105.6252 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.9 | 0.05852 | 105.6252 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.8 | 0.0593 | 100.6905 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_1 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 280 | 0.0593 | 100.6186 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 2 | FROM->TO | G15_101_1 | WICHITA (WICH TX-12) 345/138/13.8KV TRANSFORMER CKT 1 | 425.5 | 0.01089 | 100.3087 | WICHITA (WICH TX-11) 345/138/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00057 | 107.3447 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00057 | 107.3447 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00057 | 107.3367 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00057 | 107.2311 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00057 | 107.1914 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 16WP | 00NR | 3 | FROM->TO | G15_101_1 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00057 | 106.9294 | HOBBS INTERCHANGE 230/18.0KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_101_1 | COX INTERCHANGE - HALE CO INTERCHANGE 115KV CKT 1 | 95.6 | 0.0123 | 102.4603 | KRESS INTERCHANGE - KRESS_RURAL3115.00 115KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_1 | MUSTANG STATION (ENRCO 136161) 230/115/13.2KV TRANSFORMER CKT 1 | 283.2 | 0.02032 | 106.5596 | P12:230:SPS:K69.1.MUSTG.SEMINLE |
| 25SP | 00NR | 3 | FROM->TO | G15_101_1 | MUSTANG STATION (ENRCO 136161) 230/115/13.2KV TRANSFORMER CKT 1 | 286.6 | 0.02032 | 105.435 | P12:230:SPS:K69.1.MUSTG.SEMINLE |
| 20L | 06NR | 3 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.8 | 0.01075 | 132.4832 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 20L | 06NR | 3 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.8 | 0.01305 | 131.9866 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 20L | 06NR | 3 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.8 | 0.00523 | 130.3866 | P12:230:SPS:K59.1.POTTER.BSHLND |
| 17G | 06NR | 3 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.01218 | 125.0773 | DEAF SMITH COUNTY INTERCHANGE - G15101T-1 230.00 230KV CKT 1 |
| 17G | 06NR | 3 | | G15_101_1 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00996 | 124.6347 | P12:230:SPS:K11.1.BSHLND.DFSMTH |
| 25SP | 00NR | 3 | FROM->TO | G15_101_1 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 145.2 | 0.00723 | 105.1207 | P13:115-230:SPS:SEMINOLE.2 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_1 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 145.2 | 0.00723 | 105.1207 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_1 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 147.4 | 0.00723 | 103.3482 | P13:115-230:SPS:SEMINOLE.2 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_1 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 147.4 | 0.00723 | 103.3482 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_1 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 145 | 0.00732 | 106.5909 | P13:115-230:SPS:SEMINOLE.1 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_1 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 145 | 0.00732 | 106.5909 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_1 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 147.2 | 0.00732 | 104.794 | P13:115-230:SPS:SEMINOLE.1 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_1 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 147.2 | 0.00732 | 104.794 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_1 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 179.1 | 0.02357 | 102.5443 | P12:115:SPS:T30.1.LAMB.HOCKLY |
| 25SP | 00NR | 3 | FROM->TO | G15_101_1 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 179.1 | 0.02676 | 101.185 | P12:230:SPS:K03.1.SUNDWN.WOLFTH |
| 25SP | 00NR | 3 | FROM->TO | G15_101_1 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 182.5 | 0.02357 | 100.3051 | P12:115:SPS:T30.1.LAMB.HOCKLY |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|--|
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 226.2 | 0.03981 | 111.2088 | CIMARRON - MINCO 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 226.2 | 0.03981 | 102.6766 | GRACEMONT - MINCO 345KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 284 | 0.03258 | 100.4997 | CIMARRON - MINCO 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01742 | 156.1643 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01475 | 155.4464 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01742 | 151.6497 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01475 | 150.9821 | DBL-BVR-G1114 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.6 | 0.01746 | 130.2369 | DBL-G1114-WWRD |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.6 | 0.01746 | 125.9451 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01249 | 120.0839 | DBL-OTA-BVR |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01485 | 120.009 | DBL-OTA-BVR |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.9 | 0.01854 | 119.5087 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01168 | 118.9804 | P12:345:SPS:FINNEY-HITCHLAND |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01168 | 118.9804 | P12:345:SPS:J07.1.FINN.HITCH |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01168 | 118.9804 | P12:345:SPS:WALKEMEYER-HITCHLAND |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01249 | 117.6286 | DBL-HTCH-OTA |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01485 | 117.526 | DBL-HTCH-OTA |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.9 | 0.01854 | 115.0311 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01342 | 113.591 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.0102 | 113.5 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01342 | 112.2366 | FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01206 | 110.8226 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01051 | 109.8714 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01237 | 108.5074 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.0102 | 108.1429 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01066 | 106.1572 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01206 | 105.6307 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01036 | 105.3268 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01036 | 105.3268 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.01066 | 105.0411 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00996 | 104.4429 | CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00996 | 104.4429 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00996 | 104.4429 | P13:138-230:AEPW:ELKCTY-4 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.00975 | 103.4375 | DBL-TGA-MATT |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01217 | 103.2072 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01217 | 103.2072 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01173 | 103.1946 | CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01173 | 103.1946 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.3 | 0.01173 | 103.1946 | P13:138-230:AEPW:ELKCTY-4 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.0099 | 102.4018 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.8 | 0.0102 | 101.8929 | G14-074T 345.00 - TUCO INTERCHANGE 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.4 | 0.01742 | 115.5141 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.7 | 0.01475 | 113.142 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.4 | 0.01742 | 112.309 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.7 | 0.01475 | 109.9521 | DBL-BVR-G1114 |
| 20L | 06NR | 0 | TO->FROM | G15_101_2 | CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1 | 438.7 | 0.00556 | 105.0682 | CHISHOLM7 345.00 - GRAPEVINE 345.00 345KV CKT 1 |
| 17G | 06NR | 0 | TO->FROM | G15_101_2 | CHISHOLM6 230.00 - SWEETWATER 230KV CKT 1 | 438.6 | 0.00506 | 100.1629 | CHISHOLM7 345.00 - GRAPEVINE 345.00 345KV CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00101 | 108.6426 | JONES STATION 230/22.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00101 | 108.6426 | JONES STATION 230/22.0KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 16WP | 00NR | 0 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00101 | 107.3455 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00101 | 107.3455 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00101 | 107.3378 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00101 | 107.2459 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00101 | 107.2065 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 0 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00101 | 106.9302 | HOBBS INTERCHANGE 230/18.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 716.5 | 0.09717 | 100.1983 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CIMARRON RIVER PLANT - WALKEMEYER 115KV CKT 1 | 148.1 | 0.03118 | 101.5416 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.01742 | 125.2037 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.01742 | 122.0885 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.3 | 0.01475 | 119.8134 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.3 | 0.01475 | 116.7029 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.01485 | 100.2555 | DBL-OTA-BVR |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01742 | 129.4457 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01742 | 126.3592 | DBL-BVR-G1114 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01475 | 122.9012 | DBL-G1114-WWRD |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01475 | 119.8148 | DBL-BVR-G1114 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.01746 | 113.2364 | DBL-G1114-WWRD |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.01746 | 110.1547 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01485 | 104.7284 | DBL-OTA-BVR |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.01854 | 104.2367 | DBL-G1114-WWRD |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01485 | 103.0309 | DBL-HTCH-OTA |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 52.7 | 0.01067 | 102.0129 | BASE CASE |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.01854 | 101.0009 | DBL-BVR-G1114 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01342 | 100.3407 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 141.8 | 0.02485 | 139.7489 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 141.8 | 0.02485 | 130.5811 | DBL-THIS-G1524 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.7 | 0.02554 | 126.7902 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.8 | 0.0281 | 121.3193 | DBL-G1524-WICH |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.7 | 0.02554 | 117.54 | DBL-THIS-G1524 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.8 | 0.0281 | 111.3754 | DBL-THIS-G1524 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.02485 | 194.4839 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.02485 | 182.1966 | DBL-THIS-G1524 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109 | 0.02644 | 180.1336 | DBL-G1524-WICH |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.7 | 0.02255 | 179.8651 | DBL-G1524-WICH |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.2 | 0.02554 | 173.1327 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.7 | 0.0281 | 169.3137 | DBL-G1524-WICH |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109 | 0.02644 | 166.7391 | DBL-THIS-G1524 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.7 | 0.02255 | 166.5561 | DBL-THIS-G1524 |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.2 | 0.02554 | 161.0255 | DBL-THIS-G1524 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.7 | 0.0281 | 156.2502 | DBL-THIS-G1524 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 107 | 0.02774 | 149.9604 | DBL-G1524-WICH |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 107 | 0.02774 | 136.1286 | DBL-THIS-G1524 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01355 | 106.4764 | DBL-TGA-MATT |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01294 | 104.4476 | G1524G1525 345.00 - THISTLE7 345.00 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01294 | 104.4476 | G1524G1525 345.00 - THISTLE7 345.00 345KV CKT 2 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01355 | 102.4121 | DBL-G1151-TGA |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.9 | 0.0292 | 101.4632 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01355 | 101.2779 | DBL-WWRD-G1151 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|--|
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01925 | 116.6909 | ONEY - WASHITA 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03524 | 116.6717 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03516 | 113.9897 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01925 | 113.8451 | BINGER NIJECT - ONEY 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01931 | 113.608 | ONEY - WASHITA 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03126 | 112.9903 | DBL-TGA-MATT |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03023 | 111.3686 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01931 | 111.0897 | BINGER NIJECT - ONEY 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03118 | 110.4455 | DBL-TGA-MATT |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.0286 | 109.627 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03015 | 109.6201 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01925 | 109.6095 | BINGER NIJECT - SICKLES 138KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.0338 | 109.492 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.03525 | 108.9962 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03126 | 108.8154 | DBL-G1151-TGA |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03126 | 107.5563 | DBL-WWRD-G1151 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01931 | 107.1136 | BINGER NIJECT - SICKLES 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03118 | 106.2761 | DBL-G1151-TGA |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03023 | 105.7357 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.0256 | 105.329 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03118 | 105.0187 | DBL-WWRD-G1151 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02992 | 104.7593 | DBL-TGA-MATT |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 187 | 0.03607 | 104.255 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03015 | 103.9947 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.03136 | 103.8252 | DBL-TGA-MATT |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.0308 | 102.9768 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01925 | 102.3296 | HYDRO - SICKLES 138KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.03011 | 102.0002 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02893 | 101.9524 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03073 | 101.6381 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02992 | 101.4367 | DBL-G1151-TGA |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.0244 | 100.941 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01931 | 100.6855 | HYDRO - SICKLES 138KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.0256 | 100.6667 | DBL-G1151-TGA |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02992 | 100.4184 | DBL-WWRD-G1151 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 134.8 | 0.02509 | 100.1644 | BASE CASE |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.3 | 0.03136 | 100.0142 | DBL-G1151-TGA |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_2 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00529 | 110.7864 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_2 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00529 | 106.3183 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.3 | 0.00529 | 118.9632 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.3 | 0.00529 | 114.312 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00512 | 112.1251 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00507 | 112.0944 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00512 | 106.4841 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00507 | 106.4533 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 48 | 0.00511 | 101.305 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.4 | 0.01081 | 101.57 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.3 | 0.01093 | 100.2425 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.4 | 0.01081 | 100.2207 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|--|
| 25SP | 00NR | 0 | TO->FROM | G15_101_2 | COX INTERCHANGE - HALE CO INTERCHANGE 115KV CKT 1 | 95.6 | 0.01485 | 103.1004 | KRESS INTERCHANGE - KRESS_RURAL3115.00 115KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 47.5 | 0.00529 | 124.3571 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 38.9 | 0.00512 | 121.6679 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 39 | 0.00507 | 121.3251 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 47.5 | 0.00529 | 119.7255 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 38.9 | 0.00512 | 116.0123 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 39 | 0.00507 | 115.6841 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 48 | 0.00511 | 107.1383 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 48 | 0.00511 | 102.555 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | EARLSBORO 4138.00 - FIXICO TAP 138KV CKT 1 | 96.6 | 0.00547 | 101.152 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00547 | 111.6627 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00704 | 109.8862 | MAUD (MAUD1) 138/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00683 | 108.1847 | P12:138:AEPW:MCALEST4:C-RIVER4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00683 | 108.1847 | P13:345-138:AEPW:C-RIVER7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00674 | 108.1847 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00666 | 106.8025 | FOREST HILL - MAUD 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00589 | 106.3992 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00769 | 103.5522 | CLEVELAND - G15066_T 345.00 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00696 | 103.2685 | LTRIVRT2 69.000 - MAUD 69KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.0076 | 103.1143 | MAUD (MAUD1) 138/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00769 | 102.8305 | G15066_T 345.00 - SOONER 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00814 | 102.3233 | DBL-THIS-WWRD |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00744 | 102.2532 | EARLSBORO - FIXICO 69KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00698 | 102.2425 | HAMMETT TAP - HAMMETT2 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00799 | 102.1831 | P12:345:AEPW-OKGE:R.S.S.-7:REDBUD7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00745 | 102.1526 | P12:069:OKGE:3TERM34 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00696 | 101.7221 | LTRIVRT2 69.000 - WEWOKA TAP 69KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00719 | 101.6759 | FRANKLIN - FRANKLIN SW 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00698 | 101.4177 | HAMMETT2 - MEEKER 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00688 | 101.393 | ETNA - PARK LANE 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00737 | 101.3067 | P12:138:AEPW:MCALEST4:C-RIVER4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00737 | 101.3067 | P13:345-138:AEPW:C-RIVER7 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00728 | 101.3067 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00668 | 101.1373 | PARK LANE - SEMINOLE 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00674 | 100.7398 | DBL-WWRD-G1151 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.1 | 0.0069 | 154.6207 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.2 | 0.00827 | 140.4 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 31.1 | 0.00821 | 122.7344 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 31.2 | 0.00859 | 114.941 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.1 | 0.0069 | 112.4751 | G15085_T 138.00 - LAKE PAULINE 138KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.6 | 0.00846 | 106.1293 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.7 | 0.00844 | 105.7139 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.3 | 0.0069 | 129.5851 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | TO->FROM | G15_101_2 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.2 | 0.00821 | 125.3739 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | TO->FROM | G15_101_2 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.5 | 0.00827 | 119.6455 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 0 | TO->FROM | G15_101_2 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.3 | 0.00859 | 117.8378 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.0069 | 150.2154 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.00827 | 132.2492 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 30.9 | 0.00821 | 117.0563 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 31.1 | 0.00859 | 109.2013 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.0069 | 107.5231 | G15085_T 138.00 - LAKE PAULINE 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.08397 | 116.9537 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.08397 | 116.5673 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07233 | 110.3034 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07233 | 109.9465 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.08393 | 109.682 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.08393 | 109.4763 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.4 | 0.08784 | 108.359 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.08784 | 108.0866 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.06941 | 105.8744 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.06941 | 105.6809 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07233 | 105.1248 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07233 | 104.7687 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.069 | 104.0312 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.08633 | 104.0292 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.08633 | 103.918 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.0719 | 103.7789 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.069 | 103.7022 | DBL-TGA-MATT |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.0719 | 103.568 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.0866 | 103.1972 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.6 | 0.0866 | 103.177 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07581 | 103.1237 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 17G | 06NR | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.5 | 0.00833 | 103.0099 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06NR | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.00833 | 102.8239 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07581 | 102.7988 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.4 | 0.07572 | 102.2464 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.07572 | 101.9944 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.069 | 101.6652 | DBL-G1151-TGA |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.07434 | 101.5214 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20L | 06NR | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 447.9 | 0.00893 | 101.4609 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.07434 | 101.4324 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.069 | 101.3244 | DBL-G1151-TGA |
| 20L | 06NR | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.3 | 0.00893 | 101.1892 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.069 | 100.9286 | DBL-WWRD-G1151 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.069 | 100.5911 | DBL-WWRD-G1151 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | GYPSUM - RUSSELL 69KV CKT 1 | 25.8 | 0.0069 | 141.3023 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | GYPSUM - RUSSELL 69KV CKT 1 | 25.6 | 0.00827 | 116.7375 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | GYPSUM - RUSSELL 69KV CKT 1 | 30.5 | 0.00821 | 103.5095 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 142.5 | 0.02485 | 157.3081 | DBL-G1524-WICH |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 142.5 | 0.02485 | 148.1853 | DBL-THIS-G1524 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.02554 | 141.3904 | DBL-G1524-WICH |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.02554 | 132.2359 | DBL-THIS-G1524 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 142.8 | 0.02036 | 114.4162 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 135.9 | 0.02164 | 112.1366 | DBL-G1524-WICH |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.01736 | 111.2274 | DBL-G1524-WICH |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 142.8 | 0.02036 | 106.5731 | DBL-THIS-G1524 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 135.2 | 0.02136 | 104.1615 | DBL-G1524-WICH |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 135.9 | 0.02164 | 104.0424 | DBL-THIS-G1524 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|--|
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.01736 | 103.4007 | DBL-THIS-G1524 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | HITCHLAND INTERCHANGE - TEXAS COUNTY INTERCHANGE 115KV CKT 1 | 159.6 | 0.00735 | 103.2982 | P12:115:SPS:W09.2.HITCH.TXSCO |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_2 | HITCHLAND INTERCHANGE - TEXAS COUNTY INTERCHANGE 115KV CKT 1 | 159.7 | 0.00763 | 101.084 | P12:115:SPS:W09.2.HITCH.TXSCO |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1 | 44.8 | 0.00682 | 100.0821 | KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1 | 44.8 | 0.00682 | 100.0821 | MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_101_2 | KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1 | 215.2 | 0.01442 | 104.4427 | BASE CASE |
| 25SP | 00NR | 0 | TO->FROM | G15_101_2 | KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1 | 236.4 | 0.01439 | 102.8146 | PALO DURO SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_101_2 | KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1 | 236.4 | 0.01439 | 101.5032 | P12:115:SPS:T66.1.RNDALL.HAPPY |
| 25SP | 00NR | 0 | TO->FROM | G15_101_2 | KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1 | 236.4 | 0.01439 | 101.4609 | HAPPY INTERCHANGE - PALO DURO SUB 115KV CKT 1 |
| 25SP | 00NR | 0 | TO->FROM | G15_101_2 | KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1 | 236.4 | 0.00788 | 99.9963 | HALE CO INTERCHANGE - TUCO2 115.00 115KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | MUSTANG STATION (ENRCO 136161) 230/115/13.2KV TRANSFORMER CKT 1 | 283.2 | 0.01995 | 106.5282 | P12:230:SPS:K69.1.MUSTG.SEMINLE |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | MUSTANG STATION (ENRCO 136161) 230/115/13.2KV TRANSFORMER CKT 1 | 286.6 | 0.01995 | 105.4389 | P12:230:SPS:K69.1.MUSTG.SEMINLE |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01081 | 123.2089 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01081 | 121.8824 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01052 | 121.3153 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01093 | 121.0348 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01052 | 121.0205 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01081 | 120.1875 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01445 | 120.168 | CIMARRON - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01059 | 119.7947 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01093 | 119.7811 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01059 | 119.4997 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01459 | 118.4378 | CIMARRON - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01081 | 118.3452 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01093 | 118.1587 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01093 | 116.315 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01445 | 115.8202 | GRACEMONT - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01459 | 114.0867 | GRACEMONT - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.0116 | 109.1997 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01142 | 108.9402 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01172 | 108.7115 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01142 | 107.6884 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.0116 | 107.0626 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01114 | 106.9761 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01114 | 106.6816 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01172 | 106.5729 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00964 | 106.4212 | COMANCHE TAP - OMPA-DUNCAN 840 138KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01142 | 105.9211 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00572 | 104.6226 | P12:138:AEPW:S.W.S.-4:L.E.S.-4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00964 | 104.4315 | P12:138:AEPW:DUNCAN-4:L.E.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00973 | 104.2295 | COMANCHE TAP - OMPA-DUNCAN 840 138KV CKT 1 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01142 | 104.0065 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00964 | 103.9157 | P12:138:AEPW-OMPA:DUNCAN-4:OMDUNCN4 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01035 | 102.8622 | DBL-TGA-MATT |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00973 | 102.4596 | P12:138:AEPW:DUNCAN-4:L.E.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00973 | 101.9434 | P12:138:AEPW-OMPA:DUNCAN-4:OMDUNCN4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00583 | 101.7693 | P12:138:AEPW:S.W.S.-4:L.E.S.-4 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01046 | 101.5563 | DBL-TGA-MATT |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01035 | 101.462 | DBL-G1151-TGA |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00904 | 101.3041 | ANADARKO - POCASSETT 138KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00904 | 101.083 | P12:138:WFEC:MSL01 |
| 25SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01522 | 101.0698 | CIMARRON - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01035 | 101.0199 | DBL-WWRD-G1151 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00904 | 101.0093 | POCASSETT - TUTTLE 138KV CKT 1 |
| 17SP | 06ALL | 0 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01046 | 100.1552 | DBL-G1151-TGA |
| 20L | 06NR | 0 | | G15_101_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.8 | 0.00553 | 130.6282 | G15101T-2 230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 156.4 | 0.03553 | 109.3524 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 157.6 | 0.03723 | 107.7634 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 156.7 | 0.03745 | 107.2036 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 145.2 | 0.0071 | 105.0992 | P13:115-230:SPS:SEMINOLE.2 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 145.2 | 0.0071 | 105.0992 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 147.4 | 0.0071 | 103.3948 | P13:115-230:SPS:SEMINOLE.2 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 147.4 | 0.0071 | 103.3948 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 145 | 0.00719 | 106.5694 | P13:115-230:SPS:SEMINOLE.1 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 145 | 0.00719 | 106.5694 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 147.2 | 0.00719 | 104.7728 | P13:115-230:SPS:SEMINOLE.1 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 147.2 | 0.00719 | 104.7728 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.3 | 0.0152 | 111.364 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 68 | 0.0152 | 110.3647 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 66.7 | 0.01529 | 109.8495 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.5 | 0.01529 | 108.8439 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 66.9 | 0.01279 | 103.0936 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.5 | 0.01591 | 102.5458 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.6 | 0.01279 | 102.174 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 68.1 | 0.01591 | 101.7891 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.3 | 0.01249 | 100.7394 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.6 | 0.00926 | 117.1718 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.9 | 0.00938 | 113.5126 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 333.7 | 0.00981 | 108.8566 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.1 | 0.01039 | 104.3915 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 334.4 | 0.0099 | 101.3086 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20SP | 06ALL | 0 | TO->FROM | G15_101_2 | SILOAM CITY - SILOAM SPRINGS TAP 161KV CKT 1 | 285.9 | 0.00593 | 101.1274 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20L | 06NR | 0 | FROM->TO | G15_101_2 | STATELINE INTERCHANGE - STLN-DEMARC6 230KV CKT 1 | 366.9 | 0.00556 | 103.3073 | CHISHOLM7 345.00 - GRAPEVINE 345.00 345KV CKT 1 |
| 20L | 06NR | 0 | FROM->TO | G15_101_2 | STLN-DEMARC6 - SWEETWATER 230KV CKT 1 | 337.4 | 0.00556 | 112.3398 | CHISHOLM7 345.00 - GRAPEVINE 345.00 345KV CKT 1 |
| 17G | 06NR | 0 | FROM->TO | G15_101_2 | STLN-DEMARC6 - SWEETWATER 230KV CKT 1 | 336.3 | 0.00506 | 106.1595 | CHISHOLM7 345.00 - GRAPEVINE 345.00 345KV CKT 1 |
| 20L | 06NR | 0 | FROM->TO | G15_101_2 | STLN-DEMARC6 - SWEETWATER 230KV CKT 1 | 337.4 | 0.00562 | 104.6973 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 179.2 | 0.02121 | 102.1152 | P12:115:SPS:T30.1.LAMB.HOCKLY |
| 25SP | 00NR | 0 | FROM->TO | G15_101_2 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 179.2 | 0.02552 | 100.9067 | P12:230:SPS:K03.1.SUNDWN.WOLFTH |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.8 | 0.01055 | 137.389 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.8 | 0.01055 | 137.389 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01055 | 137.3444 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01055 | 137.3444 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.01057 | 133.8552 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.01057 | 133.8552 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01057 | 133.7745 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01057 | 133.7745 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01045 | 124.1762 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01045 | 124.1762 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01045 | 124.0571 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01045 | 124.0571 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.1 | 0.01021 | 122.5637 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.1 | 0.01021 | 122.5637 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.01021 | 122.2427 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.01021 | 122.2427 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.011 | 119.9523 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.011 | 119.9523 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.011 | 119.9286 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.011 | 119.9286 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.01103 | 117.083 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.01103 | 117.083 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.01103 | 116.7828 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.01103 | 116.7828 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01055 | 137.4636 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01055 | 137.4636 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.8 | 0.01055 | 137.389 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.8 | 0.01055 | 137.389 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.7 | 0.01057 | 133.8552 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.7 | 0.01057 | 133.8552 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01057 | 133.7745 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01057 | 133.7745 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01045 | 124.2952 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01045 | 124.2952 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01045 | 124.0571 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01045 | 124.0571 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.1 | 0.01021 | 122.5637 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.1 | 0.01021 | 122.5637 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.01021 | 122.2427 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.01021 | 122.2427 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01101 | 119.9552 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01101 | 119.9552 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01101 | 119.9314 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 25SP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01101 | 119.9314 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.01104 | 117.0859 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.01104 | 117.0859 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.6 | 0.01104 | 116.9254 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 16WP | 06ALL | 0 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.6 | 0.01104 | 116.9254 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | TUPELO - TUPELO TAP 138KV CKT 1 | 140.6 | 0.0117 | 101.926 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | WALKEMEYER - WALKTAP3 115.00 115KV CKT 1 | 301.6 | 0.05375 | 109.0849 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | TO->FROM | G15_101_2 | WALKEMEYER - WALKTAP3 115.00 115KV CKT 1 | 301.6 | 0.05375 | 104.6419 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 277.8 | 0.05375 | 118.5025 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.1 | 0.05375 | 117.9505 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 277.8 | 0.05375 | 113.6789 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 0 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.1 | 0.05375 | 113.1494 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.8 | 0.06261 | 107.5863 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20SP | 06ALL | 0 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 280 | 0.06261 | 107.5094 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.9 | 0.06009 | 105.724 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17SP | 06ALL | 0 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.9 | 0.06009 | 105.724 | P12:345:SPS:J04.1.FINN.HOLC(534) |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|--|
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.8 | 0.0609 | 100.8277 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20WP | 06ALL | 0 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 280 | 0.0609 | 100.7557 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 0 | FROM->TO | G15_101_2 | WICHITA (WICH TX-12) 345/138/13.8KV TRANSFORMER CKT 1 | 425.5 | 0.01109 | 100.32 | WICHITA (WICH TX-11) 345/138/13.8KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 226.2 | 0.03975 | 111.1583 | CIMARRON - MINCO 345KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 226.2 | 0.03975 | 102.626 | GRACEMONT - MINCO 345KV CKT 1 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | ANADARKO - GRACMNT4 138.00 138KV CKT 1 | 284 | 0.03252 | 100.4594 | CIMARRON - MINCO 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.0174 | 156.027 | DBL-G1114-WWRD |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.01473 | 155.0895 | DBL-G1114-WWRD |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.0174 | 151.5225 | DBL-BVR-G1114 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.01473 | 150.8579 | DBL-BVR-G1114 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.6 | 0.01744 | 130.4412 | DBL-G1114-WWRD |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.6 | 0.01744 | 126.1494 | DBL-BVR-G1114 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.01475 | 119.6847 | DBL-OTA-BVR |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.01241 | 119.551 | DBL-OTA-BVR |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.9 | 0.01851 | 119.0669 | DBL-G1114-WWRD |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.01163 | 118.6886 | P12:345:SPS:FINNEY-HITCHLAND |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.01163 | 118.6886 | P12:345:SPS:J07.1.FINN.HITCH |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.01163 | 118.6886 | P12:345:SPS:WALKEMEYER-HITCHLAND |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.01241 | 117.1011 | DBL-HTCH-OTA |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.01475 | 116.982 | DBL-HTCH-OTA |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 46.9 | 0.01851 | 114.5893 | DBL-BVR-G1114 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.01336 | 113.3027 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.01012 | 112.759 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.01336 | 111.9514 | FINNEY SWITCHING STATION - Hitchland Interchange 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.01198 | 110.3045 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.01041 | 109.3505 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.01226 | 107.9784 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.01012 | 107.6365 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.0106 | 105.8886 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.01198 | 105.1243 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.01031 | 104.8428 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.01031 | 104.8428 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.0106 | 104.5523 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.0099 | 103.9554 | CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.0099 | 103.9554 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.0099 | 103.9554 | P13:138-230:AEPW:ELKCTY-4 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.00969 | 103.1751 | DBL-TGA-MATT |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.01211 | 102.9423 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.01211 | 102.9423 | G11-14T 345.00 - WOODWARD DISTRICT EHV 345KV CKT 2 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.01165 | 102.9189 | CHISHOLM6 230.00 - ELK CITY 230KV 230KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.01165 | 102.9189 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.4 | 0.01165 | 102.9189 | P13:138-230:AEPW:ELKCTY-4 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.00984 | 101.9189 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | BEAVER JCT - FT SUPPLY 69KV CKT 1 | 44.9 | 0.01012 | 101.4004 | G14-074T 345.00 - TUOCO INTERCHANGE 345KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.5 | 0.0174 | 115.3216 | DBL-G1114-WWRD |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.7 | 0.01473 | 113.2938 | DBL-G1114-WWRD |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.5 | 0.0174 | 112.1216 | DBL-BVR-G1114 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | BEAVER JCT - SPEERMORE 69KV CKT 1 | 62.7 | 0.01473 | 110.104 | DBL-BVR-G1114 |
| 16WP | 00NR | 2 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 108.6436 | JONES STATION 230/22.0KV TRANSFORMER CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 16WP | 00NR | 2 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 108.6436 | JONES STATION 230/22.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 107.3465 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 107.3465 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 107.3388 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 107.2469 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 107.2075 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 2 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 106.9312 | HOBBS INTERCHANGE 230/18.0KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 716.5 | 0.09716 | 100.2119 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CIMARRON RIVER PLANT - WALKEMEYER 115KV CKT 1 | 148.1 | 0.03126 | 101.6897 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.0174 | 125.1963 | DBL-G1114-WWRD |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.0174 | 122.081 | DBL-BVR-G1114 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.3 | 0.01473 | 119.8059 | DBL-G1114-WWRD |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.3 | 0.01473 | 116.6955 | DBL-BVR-G1114 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | CLEARLAKE - SPEERMORE 69KV CKT 1 | 64.2 | 0.01475 | 100.0623 | DBL-OTA-BVR |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.0174 | 129.4383 | DBL-G1114-WWRD |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.0174 | 126.3518 | DBL-BVR-G1114 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01473 | 122.8938 | DBL-G1114-WWRD |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01473 | 119.8074 | DBL-BVR-G1114 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.01744 | 113.3831 | DBL-G1114-WWRD |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.01744 | 110.3014 | DBL-BVR-G1114 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01475 | 104.537 | DBL-OTA-BVR |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.01851 | 103.7633 | DBL-G1114-WWRD |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01475 | 102.8395 | DBL-HTCH-OTA |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 52.7 | 0.0106 | 101.7913 | BASE CASE |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.9 | 0.01851 | 100.6817 | DBL-BVR-G1114 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARLAKE - TRI COUNTY REC-TEXAS COUNTY INTERCHANGE 69KV CKT 1 | 64.8 | 0.01336 | 100.3185 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 141.8 | 0.02491 | 139.8296 | DBL-G1524-WICH |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 141.8 | 0.02491 | 130.6618 | DBL-THIS-G1524 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.7 | 0.02559 | 126.7986 | DBL-G1524-WICH |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.8 | 0.02816 | 121.3994 | DBL-G1524-WICH |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.7 | 0.02559 | 117.6185 | DBL-THIS-G1524 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | CLEARWATER - GILL ENERGY CENTER WEST 138KV CKT 1 | 142.8 | 0.02816 | 111.4555 | DBL-THIS-G1524 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.02491 | 194.592 | DBL-G1524-WICH |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.02491 | 182.3047 | DBL-THIS-G1524 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109 | 0.02649 | 180.1446 | DBL-G1524-WICH |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.7 | 0.02261 | 179.9694 | DBL-G1524-WICH |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.2 | 0.02559 | 173.2362 | DBL-G1524-WICH |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.7 | 0.02816 | 169.4189 | DBL-G1524-WICH |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109 | 0.02649 | 166.8418 | DBL-THIS-G1524 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.7 | 0.02261 | 166.6604 | DBL-THIS-G1524 |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.2 | 0.02559 | 161.129 | DBL-THIS-G1524 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 108.7 | 0.02816 | 156.3555 | DBL-THIS-G1524 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 107 | 0.0278 | 149.9738 | DBL-G1524-WICH |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 107 | 0.0278 | 136.2355 | DBL-THIS-G1524 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01359 | 106.4854 | DBL-TGA-MATT |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01297 | 104.549 | G1524G1525 345.00 - THISTLE7 345.00 345KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01297 | 104.549 | G1524G1525 345.00 - THISTLE7 345.00 345KV CKT 2 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01359 | 102.5157 | DBL-G1151-TGA |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 109.9 | 0.02926 | 101.4762 | DBL-G1524-WICH |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|--|
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLEARWATER - MILAN TAP 138KV CKT 1 | 105.8 | 0.01359 | 101.3815 | DBL-WWRD-G1151 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01916 | 116.6105 | ONEY - WASHITA 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03514 | 116.5895 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03506 | 113.9076 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01916 | 113.7647 | BINGER NIJECT - ONEY 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01922 | 113.5274 | ONEY - WASHITA 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03117 | 112.9097 | DBL-TGA-MATT |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03008 | 111.2122 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01922 | 111.0091 | BINGER NIJECT - ONEY 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03109 | 110.365 | DBL-TGA-MATT |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02852 | 109.5631 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01916 | 109.529 | BINGER NIJECT - SICKLES 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.02999 | 109.4623 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.0337 | 109.3719 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.4 | 0.03515 | 108.8712 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03117 | 108.8011 | DBL-G1151-TGA |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03117 | 107.4757 | DBL-WWRD-G1151 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01922 | 107.033 | BINGER NIJECT - SICKLES 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03109 | 106.1956 | DBL-G1151-TGA |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03008 | 105.5793 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02553 | 105.2664 | DBL-TGA-MATT |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03109 | 104.9382 | DBL-WWRD-G1151 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02983 | 104.6941 | DBL-TGA-MATT |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 187 | 0.03597 | 104.1887 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.02999 | 103.8369 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.4 | 0.03128 | 103.7056 | DBL-TGA-MATT |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.03066 | 102.822 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.01916 | 102.2491 | HYDRO - SICKLES 138KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.4 | 0.02996 | 101.8189 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02878 | 101.7723 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 151.1 | 0.03058 | 101.4819 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02983 | 101.3715 | DBL-G1151-TGA |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02427 | 100.7635 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 150.9 | 0.01922 | 100.6049 | HYDRO - SICKLES 138KV CKT 1 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02553 | 100.6041 | DBL-G1151-TGA |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 186.6 | 0.02983 | 100.3533 | DBL-WWRD-G1151 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CLINTON JUNCTION - ELK CITY 138KV CKT 1 | 134.8 | 0.02498 | 100.0706 | BASE CASE |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_2 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00528 | 110.7813 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_2 | COMANCHE - COMANCHE TAP 69KV CKT 1 | 47 | 0.00528 | 106.1004 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.3 | 0.00528 | 118.7467 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 47.3 | 0.00528 | 114.307 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.0051 | 112.1128 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00505 | 111.8256 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.0051 | 106.4718 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 39 | 0.00505 | 106.1846 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | COMANCHE TAP - TOSCO 69KV CKT 1 | 48 | 0.0051 | 101.3 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.4 | 0.01076 | 101.4861 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.3 | 0.01088 | 100.2335 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | CORNVILLE - NORGE ROAD 138KV CKT 1 | 133.4 | 0.01076 | 100.2117 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|--|
| 25SP | 00NR | 2 | TO->FROM | G15_101_2 | COX INTERCHANGE - HALE CO INTERCHANGE 115KV CKT 1 | 95.6 | 0.01478 | 103.3967 | KRESS INTERCHANGE - KRESS_RURAL3115.00 115KV CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 47.5 | 0.00528 | 124.352 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 38.9 | 0.0051 | 121.6555 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 39 | 0.00505 | 121.3128 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 47.5 | 0.00528 | 119.7204 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 38.9 | 0.0051 | 116 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 39 | 0.00505 | 115.6718 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 48 | 0.0051 | 106.925 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | DUNCAN - TOSCO 69KV CKT 1 | 48 | 0.0051 | 102.55 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | EARLSBORO 4138.00 - FIXICO TAP 138KV CKT 1 | 96.6 | 0.00547 | 101.152 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00547 | 111.5596 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00703 | 109.7806 | MAUD (MAUD1) 138/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00682 | 108.0792 | P12:138:AEPW:MCALEST4:C-RIVER4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00682 | 108.0792 | P13:345-138:AEPW:C-RIVER7 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00674 | 108.0792 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00665 | 106.6969 | FOREST HILL - MAUD 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00588 | 106.3967 | P12:138:AEPW:OKMULGE4:R.S.S-4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00768 | 103.5497 | CLEVELAND - G15066_T 345.00 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00695 | 103.266 | LTRIVRT2 69.000 - MAUD 69KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00759 | 103.1119 | MAUD (MAUD1) 138/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00768 | 102.828 | G15066_T 345.00 - SOONER 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00697 | 102.24 | HAMMETT TAP - HAMMETT2 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00813 | 102.2177 | DBL-THIS-WWRD |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00798 | 102.1806 | P12:345:AEPW-OKGE:R.S.S.-7:REDBUD7 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00744 | 102.1501 | EARLSBORO - FIXICO 69KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00744 | 102.047 | P12:069:OKGE:3TERM34 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00695 | 101.7196 | LTRIVRT2 69.000 - WEWOKA TAP 69KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00718 | 101.6734 | FRANKLIN - FRANKLIN SW 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00697 | 101.4153 | HAMMETT2 - MEEKER 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00687 | 101.3905 | ETNA - PARK LANE 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00736 | 101.3042 | P12:138:AEPW:MCALEST4:C-RIVER4 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00736 | 101.3042 | P13:345-138:AEPW:C-RIVER7 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97.1 | 0.00727 | 101.3042 | P13:345-138:AEPW:C-RIVER7 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00668 | 101.1373 | PARK LANE - SEMINOLE 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | EARLSBORO 4138.00 - MAUD 138KV CKT 1 | 97 | 0.00674 | 100.7398 | DBL-WWRD-G1151 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.1 | 0.00674 | 153.7073 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.3 | 0.0081 | 138.9506 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 31.1 | 0.00804 | 121.9601 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 31.2 | 0.00841 | 114.1615 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.1 | 0.00674 | 111.1785 | G15085_T 138.00 - LAKE PAULINE 138KV CKT 1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.6 | 0.00828 | 105.215 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | ELDORADO - ELDORADO JCT 69KV CKT 1 | 26.7 | 0.00826 | 105.1775 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.4 | 0.00674 | 128.1407 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 2 | TO->FROM | G15_101_2 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.2 | 0.00804 | 124.6261 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 2 | TO->FROM | G15_101_2 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.5 | 0.0081 | 118.5969 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 16WP | 06ALL | 2 | TO->FROM | G15_101_2 | ELDORADO - LAKE PAULINE 69KV CKT 1 | 32.3 | 0.00841 | 116.7752 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.00674 | 148.9138 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.0081 | 131.3231 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 31 | 0.00804 | 115.9019 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 31.1 | 0.00841 | 108.0977 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | ELDORADO JCT - GYPSUM 69KV CKT 1 | 26 | 0.00674 | 106.6061 | G15085_T 138.00 - LAKE PAULINE 138KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.08377 | 116.8761 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.08377 | 116.4677 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07198 | 110.1507 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07198 | 109.7723 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.08373 | 109.6267 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.08373 | 109.3989 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.4 | 0.08764 | 108.326 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.08764 | 108.0537 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.8 | 0.06924 | 105.7749 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.06924 | 105.5817 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07198 | 104.9721 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07198 | 104.6167 | G14-074T 345.00 - OKLAUNION 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.0688 | 103.9536 | DBL-TGA-MATT |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.08612 | 103.9512 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.8 | 0.08612 | 103.8392 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.7 | 0.07156 | 103.627 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.0688 | 103.6249 | DBL-TGA-MATT |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07156 | 103.4388 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.08639 | 103.1415 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06NR | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.5 | 0.00838 | 103.1017 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.6 | 0.08639 | 103.0991 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.07548 | 102.9945 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 17G | 06NR | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.8 | 0.00838 | 102.8704 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.07548 | 102.6478 | CHISHOLM7 345.00 - WOODWARD DISTRICT EHV 345KV CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.4 | 0.07537 | 102.1161 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.9 | 0.07537 | 101.8868 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.0688 | 101.5875 | DBL-G1151-TGA |
| 20L | 06NR | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 447.9 | 0.00898 | 101.5529 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.7 | 0.07399 | 101.3915 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20L | 06NR | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.3 | 0.00898 | 101.3032 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.8 | 0.07399 | 101.2578 | P12:345:AEPW:O.K.U.-7:L.E.S.-7 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.0688 | 101.2471 | DBL-G1151-TGA |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448 | 0.0688 | 100.8509 | DBL-WWRD-G1151 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 450 | 0.0688 | 100.5138 | DBL-WWRD-G1151 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | GYPSUM - RUSSELL 69KV CKT 1 | 25.8 | 0.00674 | 140.3783 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | GYPSUM - RUSSELL 69KV CKT 1 | 25.6 | 0.0081 | 115.7969 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | GYPSUM - RUSSELL 69KV CKT 1 | 30.6 | 0.00804 | 102.3843 | G15085_T 138.00 - RUSSELL 138KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 142.5 | 0.02491 | 157.3884 | DBL-G1524-WICH |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 142.5 | 0.02491 | 148.2655 | DBL-THIS-G1524 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.02559 | 141.4686 | DBL-G1524-WICH |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.02559 | 132.2443 | DBL-THIS-G1524 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 142.8 | 0.0204 | 114.493 | DBL-G1524-WICH |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 135.9 | 0.02168 | 112.1436 | DBL-G1524-WICH |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.01741 | 111.2358 | DBL-G1524-WICH |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 142.8 | 0.0204 | 106.6498 | DBL-THIS-G1524 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 135.2 | 0.02141 | 104.2444 | DBL-G1524-WICH |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 135.9 | 0.02168 | 104.123 | DBL-THIS-G1524 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|--|
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | HARPER - MILAN TAP 138KV CKT 1 | 143.1 | 0.01741 | 103.479 | DBL-THIS-G1524 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | HITCHLAND INTERCHANGE - TEXAS COUNTY INTERCHANGE 115KV CKT 1 | 159.6 | 0.00736 | 103.1118 | P12:115:SPS:W09.2.HITCH.TXSCO |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_2 | HITCHLAND INTERCHANGE - TEXAS COUNTY INTERCHANGE 115KV CKT 1 | 159.7 | 0.00764 | 101.0855 | P12:115:SPS:W09.2.HITCH.TXSCO |
| 25SP | 00NR | 2 | TO->FROM | G15_101_2 | KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1 | 215.2 | 0.0144 | 104.4405 | BASE CASE |
| 25SP | 00NR | 2 | TO->FROM | G15_101_2 | KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1 | 236.4 | 0.01428 | 102.9726 | PALO DURO SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1 |
| 25SP | 00NR | 2 | TO->FROM | G15_101_2 | KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1 | 236.4 | 0.01428 | 101.6613 | P12:115:SPS:T66.1.RNDALL.HAPPY |
| 25SP | 00NR | 2 | TO->FROM | G15_101_2 | KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1 | 236.4 | 0.01428 | 101.619 | HAPPY INTERCHANGE - PALO DURO SUB 115KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | MUSTANG STATION (ENRCO 136161) 230/115/13.2KV TRANSFORMER CKT 1 | 283.2 | 0.01995 | 106.5282 | P12:230:SPS:K69.1.MUSTG.SEMINLE |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | MUSTANG STATION (ENRCO 136161) 230/115/13.2KV TRANSFORMER CKT 1 | 286.6 | 0.01995 | 105.4389 | P12:230:SPS:K69.1.MUSTG.SEMINLE |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01076 | 123.1263 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01076 | 121.7999 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01047 | 121.2327 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01088 | 121.026 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01047 | 120.938 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01076 | 120.1786 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01439 | 120.0837 | CIMARRON - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01054 | 119.7121 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01088 | 119.6985 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01054 | 119.4171 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01453 | 118.4271 | CIMARRON - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01076 | 118.2626 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01088 | 118.0761 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01088 | 116.3062 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01439 | 115.7359 | GRACEMONT - MINCO 345KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01453 | 114.0024 | GRACEMONT - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01155 | 109.1172 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01137 | 108.9314 | SOUTHWESTERN STATION - VERDEN 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01167 | 108.7026 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01137 | 107.6795 | NORTH 29TH CHICKASHA - VERDEN 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01155 | 106.9801 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01109 | 106.9673 | ANADARKO - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01109 | 106.6728 | CORN TAP - SEQUOYAHJ4 138.00 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01167 | 106.564 | G14-057T 345.00 - LAWTON EASTSIDE 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00959 | 106.3387 | COMANCHE TAP - OMPA-DUNCAN 840 138KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01137 | 105.9122 | P12:138:AEPW:CORNVL4:S.W.S.-4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.0057 | 104.619 | P12:138:AEPW:S.W.S.-4:L.E.S.-4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00959 | 104.349 | P12:138:AEPW:DUNCAN-4:L.E.S.-4 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00969 | 104.2224 | COMANCHE TAP - OMPA-DUNCAN 840 138KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01137 | 103.9977 | CORNVILLE - NORTH 29TH CHICKASHA 138KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.00959 | 103.8332 | P12:138:AEPW-OMPA:DUNCAN-4:OMDUNCN4 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01032 | 102.8569 | DBL-TGA-MATT |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00969 | 102.3788 | P12:138:AEPW:DUNCAN-4:L.E.S.-4 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00969 | 101.8625 | P12:138:AEPW-OMPA:DUNCAN-4:OMDUNCN4 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.00581 | 101.7658 | P12:138:AEPW:S.W.S.-4:L.E.S.-4 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01043 | 101.551 | DBL-TGA-MATT |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01032 | 101.3831 | DBL-G1151-TGA |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.009 | 101.2233 | ANADARKO - POCASSETT 138KV CKT 1 |
| 25SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.8 | 0.01516 | 101.0592 | CIMARRON - MINCO 345KV CKT 1 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.009 | 101.0022 | P12:138:WFEC:MSL01 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.01032 | 100.9409 | DBL-WWRD-G1151 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.7 | 0.009 | 100.9285 | POCASSETT - TUTTLE 138KV CKT 1 |
| 17SP | 06ALL | 2 | TO->FROM | G15_101_2 | NORGE ROAD - SOUTHWESTERN STATION 138KV CKT 1 | 135.6 | 0.01043 | 100.0761 | DBL-G1151-TGA |
| 20L | 06ALL | 2 | | G15_101_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00633 | 175.3151 | G15101T-2 230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 20SP | 06ALL | 2 | | G15_101_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00625 | 166.2207 | G15101T-2 230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 16WP | 06ALL | 2 | | G15_101_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.8 | 0.00426 | 161.3665 | G15101T-2 230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 17SP | 06ALL | 2 | | G15_101_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 29.9 | 0.00641 | 160.6635 | G15101T-2 230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 25SP | 06ALL | 2 | | G15_101_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.0062 | 158.2933 | G15101T-2 230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 17G | 06ALL | 2 | | G15_101_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00646 | 157.8347 | G15101T-2 230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 20L | 06NR | 2 | | G15_101_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00513 | 153.7707 | G15101T-2 230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 20WP | 06ALL | 2 | | G15_101_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00409 | 149.7013 | G15101T-2 230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 156.5 | 0.03388 | 106.857 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 157.7 | 0.03553 | 105.8511 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | PRINGLE INTERCHANGE - SPEARMAN INTERCHANGE 115KV CKT 1 | 156.8 | 0.03575 | 105.2168 | P12:115:SPS:T08.2.SPRMN.PRNGLE |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 145.2 | 0.0071 | 105.0992 | P13:115-230:SPS:SEMINOLE.2 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 145.2 | 0.0071 | 105.0992 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 147.4 | 0.0071 | 103.3948 | P13:115-230:SPS:SEMINOLE.2 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 147.4 | 0.0071 | 103.3948 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 145 | 0.00719 | 106.5694 | P13:115-230:SPS:SEMINOLE.1 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 145 | 0.00719 | 106.5694 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 147.2 | 0.00719 | 104.7728 | P13:115-230:SPS:SEMINOLE.1 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 147.2 | 0.00719 | 104.7728 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.4 | 0.01483 | 110.0285 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 68 | 0.01483 | 109.2047 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 66.7 | 0.01492 | 108.6669 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.5 | 0.01492 | 107.6753 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67 | 0.01246 | 101.6275 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.5 | 0.01554 | 101.3772 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 67.6 | 0.01246 | 100.8734 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1 | 68 | 0.01554 | 100.7788 | P12:230:AEPW:ELKCITY6:SWEETWT6 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.6 | 0.00926 | 117.1718 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.9 | 0.00938 | 113.4809 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 333.7 | 0.00981 | 108.8566 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 314.1 | 0.01039 | 104.3915 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | SILOAM CITY - SILOAM SPRINGS 161KV CKT 1 | 334.4 | 0.0099 | 101.3086 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20SP | 06ALL | 2 | TO->FROM | G15_101_2 | SILOAM CITY - SILOAM SPRINGS TAP 161KV CKT 1 | 285.9 | 0.00593 | 101.1274 | P12:345:AEPW-GRDA:FLINTCR7:TONECE7 |
| 20L | 06NR | 2 | FROM->TO | G15_101_2 | STLN-DEMARC6 - SWEETWATER 230KV CKT 1 | 338.3 | 0.00503 | 103.8744 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 179.2 | 0.02118 | 102.167 | P12:115:SPS:T30.1.LAMB.HOCKLY |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 179.2 | 0.0255 | 100.9598 | P12:230:SPS:K03.1.SUNDWN.WOLFTH |
| 25SP | 00NR | 2 | FROM->TO | G15_101_2 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 182.5 | 0.02118 | 100.0456 | P12:115:SPS:T30.1.LAMB.HOCKLY |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01048 | 136.9669 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01048 | 136.9669 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.8 | 0.01048 | 136.8916 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.8 | 0.01048 | 136.8916 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.0105 | 133.8351 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.7 | 0.0105 | 133.8351 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.0105 | 133.6353 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.0105 | 133.6353 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01038 | 124.1562 | P13:069-115:TCEC:TC-TXCOUNTY.1 |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|---|------------|---------|-----------------------|---|
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01038 | 124.1562 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01038 | 124.0371 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01038 | 124.0371 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.1 | 0.01014 | 122.4231 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.1 | 0.01014 | 122.4231 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.01014 | 122.1026 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.01014 | 122.1026 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01093 | 119.9323 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.9 | 0.01093 | 119.9323 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01093 | 119.9086 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 84 | 0.01093 | 119.9086 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.01096 | 116.7031 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.4 | 0.01096 | 116.7031 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.6 | 0.01096 | 116.5435 | P13:069-115:TCEC:TC-TXCOUNTY.1 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 | 83.6 | 0.01096 | 116.5435 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.8 | 0.01048 | 137.011 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.8 | 0.01048 | 137.011 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01048 | 136.9669 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01048 | 136.9669 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.7 | 0.0105 | 133.8351 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.7 | 0.0105 | 133.8351 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.0105 | 133.6353 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.0105 | 133.6353 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01039 | 124.159 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01039 | 124.159 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01039 | 124.04 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01039 | 124.04 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.1 | 0.01014 | 122.4231 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.1 | 0.01014 | 122.4231 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.01014 | 122.2225 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.01014 | 122.2225 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01093 | 119.9323 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.9 | 0.01093 | 119.9323 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01093 | 119.9086 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 25SP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 84 | 0.01093 | 119.9086 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.01097 | 116.706 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.4 | 0.01097 | 116.706 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.6 | 0.01097 | 116.5464 | P13:069-115:TCEC:TC-TXCOUNTY.2 |
| 16WP | 06ALL | 2 | FROM->TO | G15_101_2 | TEXAS COUNTY INTERCHANGE (ABB MLL92047) 115/69/13.2KV TRANSFORMER CKT 1 | 83.6 | 0.01097 | 116.5464 | TEXAS COUNTY INTERCHANGE (ABB MLL92046) 115/69/13.2KV TRANSFORMER CKT 2 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | TUPELO - TUPELO TAP 138KV CKT 1 | 140.6 | 0.01168 | 101.8515 | G14-057T 345.00 - SUNNYSIDE 345KV CKT 1 |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | WALKEMEYER - WALKTAP3 115.00 115KV CKT 1 | 301.6 | 0.05392 | 109.2642 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 2 | TO->FROM | G15_101_2 | WALKEMEYER - WALKTAP3 115.00 115KV CKT 1 | 301.6 | 0.05392 | 104.8212 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 277.8 | 0.05392 | 118.6972 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.1 | 0.05392 | 118.1443 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 277.8 | 0.05392 | 113.8736 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20L | 06ALL | 2 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.1 | 0.05392 | 113.3432 | P12:345:SPS:WALKEMEYER-FINNEY |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.8 | 0.06278 | 107.7081 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20SP | 06ALL | 2 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 280 | 0.06278 | 107.6311 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.9 | 0.06025 | 105.8449 | P12:345:SPS:J04.1.FINN.HOLC(534) |

| SEASON | GROUP | SCENARIO | DIRECTION | SOURCE | MONITORED ELEMENT | RATE (MVA) | TDF | CONTINGENCY LOADING % | CONTINGENCY |
|--------|-------|----------|-----------|-----------|--|------------|---------|-----------------------|--|
| 17SP | 06ALL | 2 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.9 | 0.06025 | 105.8449 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 279.8 | 0.06107 | 101.021 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 20WP | 06ALL | 2 | FROM->TO | G15_101_2 | WALKTAP7 345.00 (WALKE345) 345/115/13.8KV TRANSFORMER CKT 1 | 280 | 0.06107 | 100.9489 | P12:345:SPS:J04.1.FINN.HOLC(534) |
| 17G | 06ALL | 2 | FROM->TO | G15_101_2 | WICHITA (WICH TX-12) 345/138/13.8KV TRANSFORMER CKT 1 | 425.5 | 0.01111 | 100.3446 | WICHITA (WICH TX-11) 345/138/13.8KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 108.6436 | JONES STATION 230/22.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 108.6436 | JONES STATION 230/22.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 107.3465 | Harrington Station East Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 107.3465 | Harrington Station Mid Bus 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 107.3388 | HARRINGTON STATION 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 107.2469 | TOLK STATION WEST 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 107.2075 | TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1 |
| 16WP | 00NR | 3 | FROM->TO | G15_101_2 | CIMARRON - DRAPER LAKE 345KV CKT 1 | 715.2 | 0.00104 | 106.9452 | HOBBS INTERCHANGE 230/18.0KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_101_2 | COX INTERCHANGE - HALE CO INTERCHANGE 115KV CKT 1 | 95.6 | 0.01477 | 103.2895 | KRESS INTERCHANGE - KRESS_RURAL3115.00 115KV CKT 1 |
| 17G | 06NR | 3 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 448.5 | 0.00838 | 103.1017 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 17G | 06NR | 3 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.8 | 0.00838 | 102.8704 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06NR | 3 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 447.9 | 0.00898 | 101.5975 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 20L | 06NR | 3 | FROM->TO | G15_101_2 | ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1 | 449.3 | 0.00898 | 101.3255 | CHISHOLM7 345.00 - GRACEMONT 345KV CKT 1 |
| 25SP | 00NR | 3 | TO->FROM | G15_101_2 | KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1 | 223.3 | 0.0144 | 100.652 | BASE CASE |
| 25SP | 00NR | 3 | FROM->TO | G15_101_2 | MUSTANG STATION (ENRCO 136161) 230/115/13.2KV TRANSFORMER CKT 1 | 283.2 | 0.01995 | 106.5282 | P12:230:SPS:K69.1.MUSTG.SEMINLE |
| 25SP | 00NR | 3 | FROM->TO | G15_101_2 | MUSTANG STATION (ENRCO 136161) 230/115/13.2KV TRANSFORMER CKT 1 | 286.6 | 0.01995 | 105.404 | P12:230:SPS:K69.1.MUSTG.SEMINLE |
| 20L | 06NR | 3 | | G15_101_2 | NORTON 6 230.00 (NORTONXF) 230/115/13.2KV TRANSFORMER CKT 1 | 30 | 0.00513 | 153.7707 | G15101T-2 230.00 - POTTER COUNTY INTERCHANGE 230KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_2 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 145.2 | 0.0071 | 105.0992 | P13:115-230:SPS:SEMINOLE.2 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_2 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 145.2 | 0.0071 | 105.0992 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_2 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 147.4 | 0.0071 | 103.327 | P13:115-230:SPS:SEMINOLE.2 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_2 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 | 147.4 | 0.0071 | 103.327 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_2 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 145 | 0.00719 | 106.5694 | P13:115-230:SPS:SEMINOLE.1 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_2 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 145 | 0.00719 | 106.5694 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_2 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 147.2 | 0.00719 | 104.7728 | P13:115-230:SPS:SEMINOLE.1 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_2 | SEMINOLE (GE M101898) 230/115/13.2KV TRANSFORMER CKT 2 | 147.2 | 0.00719 | 104.7728 | SEMINOLE (GE M101687) 230/115/13.2KV TRANSFORMER CKT 1 |
| 20L | 06NR | 3 | FROM->TO | G15_101_2 | STLN-DEMARC6 - SWEETWATER 230KV CKT 1 | 338.3 | 0.00503 | 103.9336 | GRAPEVINE 345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1 |
| 25SP | 00NR | 3 | FROM->TO | G15_101_2 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 179.1 | 0.02119 | 102.2253 | P12:115:SPS:T30.1.LAMB.HOCKLY |
| 25SP | 00NR | 3 | FROM->TO | G15_101_2 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 179.1 | 0.02551 | 101.0734 | P12:230:SPS:K03.1.SUNDWN.WOLFTH |
| 25SP | 00NR | 3 | FROM->TO | G15_101_2 | SUNDOWN INTERCHANGE (WH XDS70381) 230/115/13.8KV TRANSFORMER CKT 1 | 182.5 | 0.02119 | 100.0469 | P12:115:SPS:T30.1.LAMB.HOCKLY |