

# Impact Cluster Study for Generation Interconnection Requests

Southwest Power Pool  
Engineering Department  
Generation Interconnection Studies

(ICS-2008-001-4)  
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SPP RESTRICTED

# Executive Summary

Southwest Power Pool has conducted this Impact Re-Study for certain generation interconnection requests in the SPP Generation Interconnection Queue to account for the withdrawal of higher queued projects and acceptance of the modifications to Notices to Construct (NTCs) by SPP for the “Priority Projects”. The NTCs for the Priority Projects were issued before all cluster study projects had been tendered and executed an Interconnection Agreement.

These interconnection requests have been clustered together for the following Impact Cluster Study. This Impact Cluster Study analyzes the interconnecting of multiple generation interconnection requests associated with new generation totaling 5,401 MW of new generation which would be located within the transmission systems of Mid-Kansas Electric Power LLC (MKEC), Oklahoma Gas and Electric (OKGE), Southwestern Public Service (SPS), Sunflower Electric Power Corporation (SUNC), Westar Energy (WERE) and/or Western Farmers Electric Cooperative (WFEC). The various generation interconnection requests have differing proposed in-service dates<sup>1</sup>. The generation interconnection requests included in this Impact Cluster Study are listed in Appendix A by their queue number, amount, area, requested interconnection point, proposed interconnection point, and the requested in-service date.

Power flow analysis has indicated that for the powerflow cases studied, 5,401MW of nameplate generation may be interconnected with transmission system reinforcements within the SPP transmission system.

A limited dynamic stability analysis was performed for this restudy. The study models were adjusted to reflect the changes listed above. The power factor analysis was not performed again. Dynamic Stability Analysis has determined that the transmission system will remain stable with the assigned Network Upgrades and Interconnection Facilities to the Impact Cluster Study Generation Interconnection Customers.

The need for reactive compensation in accordance with Order No. 661-A for wind farm interconnection requests and those requirements were determined in the previous Impact Study ICS-2008-001-1 and those results apply.

The total estimated minimum cost for interconnecting the studied generation interconnection request is \$85,000,000. These costs are shown in Appendix E and F. These costs do not include the Interconnection Customer Interconnection Facilities as defined by the SPP Open Access Transmission Tariff (OATT). This cost does not include additional network constraints in the SPP transmission system that were identified are shown in Appendix H.

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

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<sup>1</sup> The generation interconnection requests in-service dates will need to be deferred based on the required lead time for the Network Upgrades necessary. The Interconnection Customer’s that proceed to the Facility Study will be provided a new in-service date based on the completion of the Facility Study.

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

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

# Table of Contents

<b>Introduction</b> .....	<b>5</b>
<b>Model Development</b> .....	<b>5</b>
<b>Identification of Network Constraints</b> .....	<b>8</b>
<b>Determination of Cost Allocated Network Upgrades</b> .....	<b>8</b>
<b>Interconnection Facilities</b> .....	<b>9</b>
<b>Powerflow</b> .....	<b>9</b>
<b>Stability Analysis</b> .....	<b>11</b>
<b>Regional Map with Proposed Upgrades</b> .....	Error! Bookmark not defined.
<b>Conclusion</b> .....	<b>15</b>
<b>Appendix</b> .....	<b>16</b>
A: Generation Interconnection Requests Considered for Impact Study.....	A-1
B: Prior Queued Interconnection Requests .....	B-1
C: Study Groupings.....	C-1
D: Proposed Point of Interconnection One line Diagrams .....	D-1
E: Cost Allocation per Interconnection Request .....	E-1
F: Cost Allocation per Proposed Network Upgrade.....	F-1
G: ACCC Analysis (Scenario 0) with Hitchland-Woodward 345kV .....	G-1
H: ACCC Analysis (Scenario 0) without Hitchland-Woodward 345kV.....	H-1

## Introduction

Generation Interconnection Requests in the Southwest Power Pool (SPP) Generation Interconnection Queue have been clustered together for the following Impact Cluster Study. This Impact Cluster Study analyzes multiple generation interconnection requests associated with new generation totaling 5,401 MW which would be located within the transmission systems of Missouri Public Service (MIPU), Mid-Kansas Electric Power LLC (MKEC), Oklahoma Gas and Electric (OKGE), Southwestern Public Service (SPS), Sunflower Electric Power Corporation (SUNC), Westar Energy (WERE) and/or Western Farmers Electric Cooperative (WFEC). The various generation interconnection requests have differing proposed in-service dates. The generation interconnection requests included in this Impact Cluster Study are listed in Appendix A by their queue number, amount, area, requested interconnection point, proposed interconnection point, and the requested in-service date.

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

## Model Development

### Interconnection Requests Included in the Cluster

SPP has included certain interconnection requests to be analyzed in this cluster study. The interconnection requests are listed in Appendix A.

### Previous Queued Projects

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

### Development of Base Cases

**Powerflow** - The 2010 series Transmission Service Request (TSR) Models 2011 spring and 2016 summer and winter peak scenario 0 peak cases were used for this study. After the 2011 spring and the 2016 summer peak cases were developed, each of the control areas' resources were then re-dispatched using current dispatch orders.

**Stability** – The 2010 series SPP Model Development Working Group (MDWG) Models 2011 winter and 2011 summer were used for this study.

## Base Case Upgrades

The following facilities have been previously assigned or are in construction stages and were assumed to be in-service at the time of dispatch and added to the base case models. These projects may need to be in service before the in service date of the study projects. An analysis was conducted without the Priority Projects and Balanced Portfolio Projects in Appendix G to determine which Interconnection Requests need the Priority Projects and Balanced Portfolio Projects to be installed before their in-service date. These projects are listed in Appendix E if they are required for interconnection.

- Priority Projects<sup>2</sup>
  - Hitchland-Woodward double circuit 345kV transmission line
  - Medicine Lodge-Woodward double circuit 345kV transmission line
  - Comanche-Medicine Lodge double circuit 345kV transmission line
  - Medicine Lodge – Wichita double circuit 345kV transmission line
  - Medicine Lodge 345/138kV autotransformer
- Hitchland 345/230/115kV upgrades to be built by SPS for 2010/2011 in-service<sup>3</sup>.
  - Hitchland – Moore County 230kV line
  - Hitchland – Ochiltree 230kV line
  - Hitchland – Texas County 115kV line
  - Hitchland – Hansford County 115kV line
  - Hitchland – Sherman County Tap 115kV line
- Valliant – Hugo – Sunnyside 345kV – assigned to Aggregate Study AG3-2006 Customers for 2011 in-service
- Wichita – Reno County – Summit 345kV to be built by WERE for 2011 in-service<sup>4</sup>.
- Rose Hill – Sooner 345kV to be built by WERE/OKGE for 2012 in-service.
- Finney – Holcomb 345kV Ckt #2 line assigned to GEN-2006-044 interconnection customer for possible 2010 in-service<sup>5</sup>.
- Tuco – Woodward 345kV line approved by the SPP Board of Directors as part of the Balanced Portfolio and issued an NTC in June, 2009
- Spearville – Knoll- Axtell 345kV line approved by the SPP Board of Directors as part of the Balanced Portfolio and issued an NTC in June, 2009

## Potential Upgrades Not in the Base Case

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

## Regional Groupings

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

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<sup>2</sup> Notice to Construct issued June, 2010

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

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

<sup>5</sup> Based on Facility Study Posting November 2008

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

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

Peaking units were not dispatched in the 2011 spring model. To study peaking units' impacts, the 2016 summer peak model was chosen and peaking units were modeled at 100% of the nameplate rating and wind generating facilities were modeled at 10% of the nameplate rating.

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

## Identification of Network Constraints

The initial set of network constraints were found by using PTI MUST First Contingency Incremental Transfer Capability (FCITC) analysis on the entire cluster grouping dispatched at the various levels mentioned above. An additional FCITC analysis was conducted for each interconnection request individually at 100% nameplate. These constraints were then screened to determine if any of the generation interconnection requests had at least a 20% Distribution Factor (DF) upon the constraint. Constraints that measured at least a 20% DF from at least one interconnection request were considered for mitigation.

## Determination of Cost Allocated Network Upgrades

Cost Allocated Network Upgrades of wind generation interconnection requests were determined using the 2010 spring model. Cost Allocated Network Upgrades of peaking units was determined using the 2014 summer peak model. Once a determination of the required Network Upgrades was made, a powerflow model of the 2010 spring case was developed with all cost allocated Network Upgrades in-service. A MUST FCITC analysis was performed to determine the Power Transfer Distribution Factors (PTDF), defined as a distribution factor with system intact conditions that each generation interconnection request had on each new upgrade. The impact each generation interconnection request had on each upgrade project was weighted by the size of each request. Finally the costs due by each request for a particular project were then determined by allocating the portion of each request's impact over the impact of all affecting requests.

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

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

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

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

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

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

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

- Repeat previous for each responsible GI request for each Project

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



## Credits for Amounts Advanced for Network Upgrades

Interconnection Customer shall be entitled to credits in accordance with Attachment Z1 of the SPP Tariff for any Network Upgrades including any tax gross-up or any other tax-related payments associated with the Network Upgrades, and not refunded to the Interconnection Customer.

## Interconnection Facilities

The requirement to interconnect the 5,401 MW of generation into the existing and proposed transmission systems in the affected areas of the SPP transmission footprint consist of the necessary cost allocated shared facilities listed in Appendix F. Interconnection Facilities specific to each generation interconnection request are listed in Appendix E. Appendix F lists the costs by upgrade. The total for interconnection facilities owned by transmission owners and network upgrades is approximately \$85,000,000.

While Priority Projects and Balanced Portfolio projects were not cost allocated to the Interconnection Requests, these projects are required for the interconnection of certain study requests. These projects are listed in Appendix E for each study request.

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

## Powerflow

### Powerflow Analysis Methodology

The Southwest Power Pool (SPP) Criteria states that:

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

The ACCC function of PSS/E was used to simulate single contingencies in portions or all of the modeled control areas of AEPW, EMDE, Grand River Dam Authority (GRDA), Kansas City Power & Light (KCPL), MIDW, MIPU, OKGE, SPS, SUNC, WERE, WFEC and other control areas were applied and the resulting scenarios analyzed. This satisfies the “more probable” contingency testing criteria mandated by NERC and the SPP criteria.

## **Powerflow Analysis**

A powerflow analysis was conducted for each Interconnection Customer's facility using modified versions of the 2011 spring peak and the 2016 summer peak models. The output of the Interconnection Customer's facility was offset in each model by a reduction in output of existing online SPP generation. This method allows the request to be studied as an Energy Resource (ERIS) Interconnection Request. The available seasonal models used were through the 2016 Summer Peak.

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

### **Cluster Group 1 (Woodward Area)**

The Woodward area contained approximately 2,338 MW of new interconnection requests in addition to the 739MW of prior queued interconnection requests. The changes in priority projects did not cause any additional constraints to be observed in this area.

### **Cluster Group 2 (Hitchland Area)**

The Hitchland area contained 235 MW of interconnection request in addition to the 1,958 MW of previous queued generation interconnection requests. The changes in priority projects did not cause any additional constraints to be observed in this area.

### **Cluster Group 3 (Spearville Area)**

The Spearville area contained 1,110 MW of interconnection requests and 660 MW of previous queued interconnection requests. The Spearville–Knoll-Axtell 345kV line and priority projects were modeled for this area. The major constraints caused by the Spearville area cluster include the Spearville 345/230kV transformer. To mitigate this constraint, a second transformer is needed. The changes in priority projects did not cause any additional constraints to be observed in this area.

### **Cluster Group 4 (Mingo/NW Kansas Group)**

The Mingo/NW Kansas group had 300 MW in addition to the 715 MW of previously queued generation in the area. The changes in priority projects did not cause any additional constraints to be observed in this area.

### **Cluster Group 5 (Amarillo Area)**

The Amarillo group was contained 400 MW of interconnection requests in addition to the 1,506 MW of previously queued interconnection requests in this area. No additional constraints were found.

### **Cluster Group 6 (South Panhandle/New Mexico)**

This group had 518 MW of interconnection requests in addition to the 410 MW of previously queued interconnection requests. The Tuco-Woodward 345kV line was modeled for this area. The changes in priority projects did not cause any additional constraints to be observed in this area.

### **Cluster Group 7 (Southwestern Oklahoma)**

This group had 600 MW of interconnection requests in addition to the 947 MW of previous queued generation in the area. With the reduction of queued generation to the west of this area, no constraints were found in this area with the exception of some local issues.

### **Cluster Group 8 (South Central Kansas)**

GEN-2007-025 (300MW) was the only request in this area and was not affected by the change in priority projects.

## **Stability Analysis**

A limited stability analysis was conducted for each Interconnection Customer's facility using modified versions of the 2011 winter peak and the 2011 summer peak models. The stability analysis was conducted with all upgrades in service that were identified in the powerflow analysis. For each group, the interconnection requests were studied at 100% nameplate output while the other groups were dispatched at 20% output for wind requests and 100% output for fossil requests. The output of the Interconnection Customer's facility was offset in each model by a reduction in output of existing online SPP generation. The following synopsis is included for each group.

The following faults were run for Group 1 and Group 3 as they were the most likely to be impacted by the change in transmission lines.

1. 3 phase fault at the Tuco-Woodward 345kV midpoint bus. Trip and lockout out Tuco-Woodward 345kV
2. 3 phase fault at Woodward 345kV bus. Trip and lockout out Tuco-Woodward 345kV
3. 3 phase fault at Woodward 345kV bus. Trip and lockout out both Hitchland-Woodward 345kV lines
4. 3 phase fault at Woodward 345kV bus. Trip and lockout both Medicine Lodge – Woodward 345kV lines
5. 3 phase fault at Wichita 345kV bus. Trip and lockout both Medicine Lodge – Wichita 345kV lines
6. 3 phase fault at Tatonga 345kV bus. Trip and lockout out Tatonga – Northwest 345kV
7. 3 phase fault at Northwest 345kV bus. Trip and lockout out Tatonga – Northwest 345kV

### Cluster Group 1 (Woodward Area)

Power Factor and LVRT analysis from ICS-2008-001-1 posted January, 2010 still applies. Transmission system was found to be stable with all network upgrades in service. Power Factor requirements are shown below.

Request	Size (MW)	Generator Model	Point of Interconnection	Final PF Requirement at POI		Capacitors Required?
				Lagging (supplying)	Leading (absorbing)	
GEN-2007-021	200	G.E. 1.5 MW	Tatonga 345kV	0.98	0.95	None
GEN-2007-044	300	G.E. 1.5 MW	Tatonga 345kV	0.98	0.95	None
GEN-2007-050	171	Siemens SWT 2.3MW	Woodward 138kV	0.99	0.99	None
GEN-2007-051	200	G.E. 1.5 MW	Mooreland 138kV	0.95	0.95	Yes
GEN-2007-062	765	G.E. 1.5MW	Woodward 345kV	0.95	0.95	Yes
GEN-2008-003	101.2	Siemens SWT 2.3MW	Woodward 138kV	0.99	0.99	Yes
GEN-2008-013	300	G.E. 1.5 MW	Wichita – Woodring 345kV	0.98	0.98	None
GEN-2008-019	300	Mitsubishi 2.4MW	Tatonga 345kV	0.98	0.95	Yes

### Cluster Group 2 (Hitchland Area)

Power Factor and LVRT analysis from ICS-2008-001-1 posted January, 2010 still applies. No additional simulations were run in this area. Power Factor requirements are shown below.

Request	Size (MW)	Generator Model	Point of Interconnection	Final PF Requirement at POI		Capacitors Required?
				Lagging (supplying)	Leading (absorbing)	
GEN-2007-046	200	G.E. 1.5 MW	Hitchland 115kV	0.95	0.95	None
GEN-2007-057	34.5	G.E. 1.5MW	Moore 115kV	0.95	0.95	Yes

### Cluster Group 3 (Spearville Area)

Power Factor and LVRT analysis from ICS-2008-001-1 posted January, 2010 still applies. Transmission system was found to be stable with all network upgrades in service. Power Factor requirements are shown below.

Request	Size (MW)	Generator Model	Point of Interconnection	Final PF Requirement at POI		Capacitors Required?
				Lagging (supplying)	Leading (absorbing)	
GEN-2006-006	205.5	G.E. 1.5 MW	Spearville 230kV	0.95	0.95	Yes
GEN-2007-038	200	Clipper 2.5MW	Spearville 345kV	0.95	0.95	Yes
GEN-2008-018	405	G.E. 1.5MW	Finney 345kV	0.95	0.95	Yes

#### Cluster Group 4 (Mingo Area)

Power Factor and LVRT analysis from ICS-2008-001-1 posted January, 2010 still applies. No additional simulations were run in this area.

Request	Size (MW)	Generator Model	Point of Interconnection	Final PF Requirement at POI		Capacitors Required?
				Lagging (supplying)	Leading (absorbing)	
GEN-2008-017	300	G.E. 1.5 MW	Setab 345kV	0.95	0.95	No

#### Cluster Group 5 (Amarillo Area)

Power Factor and LVRT analysis from ICS-2008-001-1 posted January, 2010 still applies. Transmission system was found to be stable with all network upgrades in service.

Request	Size (MW)	Generator Model	Point of Interconnection	Final PF Requirement at POI		Capacitors Required?
				Lagging (supplying)	Leading (absorbing)	
GEN-2007-048	400	Furhlander 2.5MW	Amarillo-Swisher 230kV	0.95	0.95	Dependent upon turbine capability

#### Cluster Group 6 (South Panhandle Area)

Power Factor and LVRT analysis from ICS-2008-001-1 posted January, 2010 still applies.

Request	Size (MW)	Generator Model	Point of Interconnection	Final PF Requirement at POI		Capacitors Required?
				Lagging (supplying)	Leading (absorbing)	
GEN-2008-008	60	G.E. 1.5 MW	Graham 69kV	0.95	0.95	None
GEN-2008-009	60	G.E. 1.5 MW	San Juan Mesa 230kV	0.95	0.95	Yes
GEN-2008-014	150	Vestes V90 1.8MW	Tuco-Oklauinion 345kV	0.95	0.95	Yes
GEN-2008-016	248.5	Vestes V90* 1.8MW	Grassland 230kV	0.95	0.95	Yes

\* GEN-2008-016 currently under restudy for use of Siemens 2.3 MW turbines.

### Cluster Group 7 (Southwest Oklahoma)

Power Factor and LVRT analysis from ICS-2008-001-1 posted January, 2010 still applies.

Request	Size (MW)	Generator Model	Point of Interconnection	Final PF Requirement at POI		Capacitors Required?
				Lagging (supplying)	Leading (absorbing)	
GEN-2007-032	150	Acciona 1.5	Clinton –Clinton Jct 138kV	0.99	0.95	None
GEN-2007-043	200	G.E. 1.6MW	Cimarron – Gracemont 345kV	0.98	0.98	None

### Cluster Group 8 (South Central Kansas)

Power Factor and LVRT analysis from ICS-2008-001-1 posted January, 2010 still applies. No additional simulations were run in this area.

Request	Size (MW)	Generator Model	Point of Interconnection	Final PF Requirement at POI		Capacitors Required?
				Lagging (supplying)	Leading (absorbing)	
GEN-2007-025	300	Clipper 2.5 MW	Wichita – Woodring 345kV	0.95	0.95	Yes

## Conclusion

The minimum cost of interconnecting all of the interconnection requests included in this Impact Cluster Study is estimated at \$85,000,000 for the Allocated Network Upgrades and Transmission Owner Interconnection Facilities are listed in Appendix E and F. These costs do not include the cost of upgrades of other transmission facilities listed in Appendix I which are Network Constraints.

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

# Appendix



## **A: Generation Interconnection Requests Considered for Impact Study**

Request	Amount	Area	Requested Point of Interconnection	Proposed Point of Interconnection	Requested In-Service Date
GEN-2006-006	205	MKEC	Spearville 230kV	Spearville 230kV	12/31/2010
GEN-2007-021	201	OKGE	Dewey 138kV	*Tatonga 345kV	8/1/2009
GEN-2007-025	300	WERE	Wichita – Woodring 345kV	* Wichita – Woodring 345kV	10/1/2009
GEN-2007-032	150	WFEC	Clinton Junction - Clinton 138kV	Clinton Junction - Clinton 138kV	12/31/2010
GEN-2007-038	200	SUNC	Spearville 345kV	Spearville 345kV	12/31/2012
GEN-2007-043	200	AEPW	Lawton Eastside - Cimarron 345kV	Lawton Eastside - Cimarron 345kV	12/1/2009
GEN-2007-044	300	OKGE	Roman Nose 138kV	*Tatonga 345kV	12/1/2009
GEN-2007-046	200	SPS	Texas County - *Hitchland 115kV	*Hitchland 115kV	12/31/2011
GEN-2007-048	400	SPS	Amarillo South - Swisher County 230kV	Amarillo South - Swisher County 230kV	11/1/2009
GEN-2007-050	171	OKGE	Woodward 138kV	Woodward EHV 138kV	10/1/2009
GEN-2007-051	200	WFEC	Mooreland 138kV	Mooreland 138kV	11/7/2007
GEN-2007-052	150	WFEC	Anadarko 138kV	Anadarko 138kV	5/1/2008
GEN-2007-057	35	SPS	Valero 115kV	Moore County East 115kV	5/1/2009
GEN-2007-062	765	OKGE	*Woodward 345kV	*Woodward 345kV	12/31/2011
GEN-2008-003	101	OKGE	Woodward 138kV	*Woodward EHV 138kV	8/31/2009
GEN-2008-008	60	SPS	Graham 69kV	Graham 69kV	12/31/2010
GEN-2008-009	60	SPS	San Juan Mesa 230kV	San Juan Mesa 230kV	3/1/2012
GEN-2008-013	300	OKGE	Wichita – Woodring 345kV	Wichita - Woodring 345kV	10/1/2010
GEN-2008-014	150	SPS	TUCO - Oklaunion 345kV	TUCO - Oklaunion 345kV	12/1/2010
GEN-2008-016	248	SPS	Grassland 230kV	Grassland 230kV	12/1/2009
GEN-2008-017	300	SUNC	Setab 345kV	Setab 345kV	3/1/2012
GEN-2008-018	405	SUNC	Holcomb - Spearville 345kV	Finney 345kV	12/31/2012
GEN-2008-019	300	OKGE	Dewey 138kV	*Tatonga 345kV	12/31/2012
<b>GROUPED TOTAL</b>	<b>5,401</b>				

\* Planned Facility

^ Proposed Facility

\*\*\* Electrically Remote Interconnection Requests

## **B: Prior Queued Interconnection Requests**

<b>Request</b>	<b>Amount</b>	<b>Area</b>	<b>Requested/Proposed Point of Interconnection</b>	<b>Status or In-Service Date</b>
GEN-2001-014	96	WFEC	Fort Supply 138kV	On-Line
GEN-2001-026	74	WFEC	Washita 138kV	On-Line
GEN-2001-033	180	SPS	San Juan Mesa Tap 230kV	On-Line
GEN-2001-036	80	SPS	Caprock Tap 115kV	On-Line
GEN-2001-037	103	OKGE	Windfarm Switching 138kV	On-Line
GEN-2001-039A	105	MKEC	Greensburg - Judson-Large 115kV	On Schedule for 2011
GEN-2001-039M	100	SUNC	Leoti - City Services 115kV	On-Line
GEN-2002-005	120	WFEC	Morewood - Elk City 138kV	On-Line
GEN-2002-006	150	SPS	Texas County 115kV	IA Executed/On Schedule 12/31/2010
GEN-2002-008	240	SPS	*Hitchland 345kV	On-Line at 120MW
GEN-2002-009	80	SPS	Hansford County 115kV	On-Line
GEN-2002-022	240	SPS	Bushland 230kV	On-Line at 160MW remaining 80MW on schedule for 12/2011
GEN-2002-025A	150	MKEC	Spearville 230kV	On-Line at 100MW/ remaining 50MW scheduled for 2011
GEN-2003-004	100	WFEC	Washita 138kV	On-Line
GEN-2003-005	100	WFEC	Anadarko - Paradise 138kV	On Line
GEN-2003-013**	198	SPS	*Hitchland - Finney 345kV	On Schedule for 2012
GEN-2003-020	160	SPS	Carson County 115kV	On-Line at 80MW / no schedule for remaining
GEN-2003-022	120	AEPW	Washita 138kV	On-Line
GEN-2004-014	155	MKEC	Spearville 230kV	50 MW on schedule for 2010 / 100 MW on schedule for 2012
GEN-2004-020	27	AEPW	Washita 138kV	On-Line
GEN-2004-023	21	WFEC	Washita 138kV	On-Line
GEN-2005-003	31	WFEC	Washita 138kV	On-Line
GEN-2005-008	120	OKGE	Woodward 138kV	On-Line
GEN-2005-012	250	SUNC	Spearville 345kV	On Suspension
GEN-2005-015	150	SPS	Tuco - Oklaunion 345kV	On Suspension
GEN-2005-017	340	SPS	*Hitchland - Potter County 345kV	On Suspension
GEN-2005-021	86	SPS	Kirby 115kV	On Suspension
GEN-2006-002	101	AEPW	Grapevine - Elk City 230kV	On Schedule for 2011 in service
GEN-2006-020	20	SPS	*Hitchland - Sherman County Tap	IA Executed/On Schedule 12/31/2011
GEN-2006-032	200	MIDW	South Hays 230kV	On Suspension
GEN-2006-034	81	SUNC	Kanarado - Sharon Springs 115kV	On Suspension
GEN-2006-035	225	AEPW	Grapevine - Elk City 230kV	On Suspension
GEN-2006-039	400	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV	On Suspension
GEN-2006-040	100	SUNC	Mingo 115kV	On Suspension
GEN-2006-043	99	AEPW	Grapevine - Elk City 230kV	On-Line
GEN-2006-044	370	SPS	*Hitchland 345kV	On Suspension
GEN-2006-045	240	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV	On Suspension
GEN-2006-046	130	OKGE	Dewey 138kV	On Schedule for 2011

Request	Amount	Area	Requested/Proposed Point of Interconnection	Status or In-Service Date
GEN-2006-047	240	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV	On Schedule for 2013
GEN-2006-049	400	SPS	*Hitchland - Finney 345kV	On schedule for 2014
GEN-2007-002	160	SPS	Grapevine 115kV	On Suspension
GEN-2007-006	160	OKGE	Roman Nose 138kV	On Suspension
GEN-2007-011	135	SUNC	Syracuse 115kV	On Schedule
GEN-2007-013	99	SUNC	Selkirk 115kV	On Suspension
<b>GROUPED TOTAL</b>	<b>7,085</b>			

\* Planned Facility

## C: Study Groupings

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2001-014	96	WFEC	Fort Supply 138kV
	GEN-2001-037	103	OKGE	Windfarm Switching 138kV
	GEN-2002-005	120	WFEC	Morewood - Elk City 138kV
	GEN-2005-008	130	OKGE	Woodward 138kV
	GEN-2006-046	130	OKGE	Dewey 138kV
	GEN-2007-006	160	OKGE	Roman Nose 138kV
<b>PRIOR QUEUED SUBTOTAL</b>		<b>739</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
Woodward	GEN-2007-021	201	OKGE	*Tatonga 345kV
	GEN-2007-044	300	OKGE	*Tatonga 345kV
	GEN-2007-050	200	OKGE	*Woodward 138kV
	GEN-2007-051	171	WFEC	Mooreland 138kV
	GEN-2007-062	765	OKGE	*Woodward 345kV
	GEN-2008-003	101	OKGE	*Woodward EHV 138kV
	GEN-2008-013	300	OKGE	Wichita - Woodring 345kV
	GEN-2008-019	300	OKGE	*Tatonga 345kV
<b>WOODWARD SUBTOTAL</b>		<b>2,338</b>		
<b>AREA SUBTOTAL</b>		<b>3,077</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2002-006	150	SPS	Texas County 115kV
	GEN-2002-008	240	SPS	*Hitchland 345kV
	GEN-2002-009	80	SPS	Hansford County 115kV
	GEN-2003-013	198	SPS	*Hitchland - Finney 345kV
	GEN-2003-020	160	SPS	Carson County 115kV
	GEN-2005-017	340	SPS	*Hitchland - Potter County 345kV
	GEN-2006-020	20	SPS	*Hitchland - Sherman County Tap
	GEN-2006-044	370	SPS	*Hitchland 345kV
	GEN-2006-049	400	SPS	*Hitchland - Finney 345kV
<b>PRIOR QUEUED SUBTOTAL</b>		<b>1,958</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
	GEN-2007-046	200	SPS	*Hitchland 115kV
	GEN-2007-057	35	SPS	Moore County East 115kV
<b>HITCHLAND SUBTOTAL</b>		<b>435</b>		
<b>AREA SUBTOTAL</b>		<b>2,393</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2001-039A	105	MKEC	Greensburg - Judson-Large 115kV
	GEN-2002-025A	150	MKEC	Spearville 230kV
	GEN-2004-014	155	MKEC	Spearville 230kV
	GEN-2005-012	250	SUNC	Spearville 345kV
<b>PRIOR QUEUED SUBTOTAL</b>		<b>660</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
Spearville	GEN-2006-006	205	MKEC	Spearville 230kV
	GEN-2007-025	300	WERE	Wichita-Woodring 345kV
	GEN-2007-038	200	SUNC	Spearville 345kV
	GEN-2008-018	405	SUNC	Finney 345kV
<b>SPEARVILLE SUBTOTAL</b>		<b>1110</b>		
<b>AREA SUBTOTAL</b>		<b>1,770</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2001-039M	100	SUNC	Leoti - City Services 115kV
	GEN-2006-032	200	MIDW	South Hays 230kV
	GEN-2006-034	81	SUNC	Kanarado - Sharon Springs 115kV
	GEN-2006-040	100	SUNC	Mingo 115kV
	GEN-2007-011	135	SUNC	Syracuse 115kV
	GEN-2007-013	99	SUNC	Selkirk 115kV
<b>PRIOR QUEUED SUBTOTAL</b>		<b>715</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
	GEN-2008-017	300	SUNC	Setab 345kV
<b>MINGO/NW KANSAS SUBTOTAL</b>		<b>300</b>		
<b>AREA SUBTOTAL</b>		<b>1,015</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2002-022	240	SPS	Bushland 230kV
	GEN-2005-021	86	SPS	Kirby 115kV
	GEN-2006-039	400	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV
	GEN-2006-045	240	SPS	Dewey 138kV
	GEN-2006-047	240	SPS	Tap and Tie both Potter County - Plant X 230kV and Bushland - Deaf Smith 230kV
	GEN-2007-002	160	SPS	Grapevine 115kV
<b>PRIOR QUEUED SUBTOTAL</b>		<b>1,366</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
	GEN-2007-048	400	SPS	Amarillo South - Swisher County 230kV
<b>AMARILLO SUBTOTAL</b>		<b>400</b>		
<b>AREA SUBTOTAL</b>		<b>1,766</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2001-033	180	SPS	San Juan Mesa Tap 230kV
	GEN-2001-036	80	SPS	Caprock Tap 115kV
	GEN-2005-015	150	SPS	TUCO - Oklaunion 345kV
<b>PRIOR QUEUED SUBTOTAL</b>		<b>410</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
	GEN-2008-008	60	SPS	Graham 115kV
	GEN-2008-009	60	SPS	San Juan Mesa 230kV
	GEN-2008-014	150	SPS	TUCO - Oklaunion 345kV
	GEN-2008-016	248	SPS	Grassland 230kV
<b>SOUTH PANHANDLE/NM SUBTOTAL</b>		<b>518</b>		
<b>AREA SUBTOTAL</b>		<b>928</b>		

Cluster	Request	Amount	Area	Proposed Point of Interconnection
Prior Queued	GEN-2001-026	74	WFEC	Fort Supply 138kV
	GEN-2003-004	101	WFEC	Washita 138kV
	GEN-2003-005	100	WFEC	Anadarko - Paradise 138kV
	GEN-2003-022	120	AEPW	Washita 138kV
	GEN-2004-020	27	AEPW	Washita 138kV
	GEN-2004-023	21	WFEC	Washita 138kV
	GEN-2005-003	31	WFEC	Washita 138kV
	GEN-2006-002	150	AEPW	Grapevine - Elk City 230kV
	GEN-2006-035	225	AEPW	Grapevine - Elk City 230kV
GEN-2006-043	99	AEPW	Grapevine - Elk City 230kV	
<b>PRIOR QUEUED SUBTOTAL</b>		<b>948</b>		
Cluster	Request	Amount	Area	Proposed Point of Interconnection
SW Oklahoma	GEN-2007-032	150	WFEC	Clinton Junction - Clinton 138kV
	GEN-2007-043	300	AEPW	Lawton Eastside - Cimarron 345kV
	GEN-2007-052	150	WFEC	Anadarko 138kV
<b>SW OKLAHOMA SUBTOTAL</b>		<b>600</b>		
<b>AREA SUBTOTAL</b>		<b>1,548</b>		
<b>***CLUSTERED TOTAL (w/o PRIOR QUEUED)</b>		<b>5,851</b>		
<b>***CLUSTERED TOTAL (w/PRIOR QUEUED)</b>		<b>12,936</b>		

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

**D: Proposed Point of Interconnection One line Diagrams**

**SEE FACILITY STUDIES POSTED SEPARATELY FOR EACH INDIVIDUAL REQUEST POSTED**

## **E: Cost Allocation per Interconnection Request**

If interconnection request is dependent upon a Priority Project or Balanced Portfolio upgrade, those upgrades/projects are listed in the interconnection requirements as Priority Project or Balanced Portfolio.



# Appendix E. - Cost Allocation Per Request

## (Including Previously Allocated Network Upgrades\*)

Interconnection Request	Upgrade Type	Allocated Costs	E + C Costs
<b>GEN-2006-006</b>			
GEN-2006-006 Interconnection Cost		\$5,447,000.00	\$5,447,000.00
See Online Diagram			
Spearville (SPEARVL2) 345/230/13.8KV Transformer CKT 2		\$6,400,000.00	\$6,400,000.00
Spearville - Comanche - Medicine Lodge Dbl Ckt 345kV	Priority Project		
Spearville - Knoll - Axtell 345kV	Balanced Portfolio		
Woodward - Medicine Lodge Dbl Ckt 345kV	Priority Project		
Medicine Lodge - Wichita Dbl Ckt 345kV	Priority Project		
	<b>Current Study Total</b>	<b>\$11,847,000.00</b>	
<b>GEN-2007-021</b>			
GEN-2007-021 Interconnection Cost		\$3,073,000.00	\$3,073,000.00
See Online Diagram			
Woodward - Medicine Lodge Dbl Ckt 345kV	Priority Project		
Medicine Lodge - Wichita Dbl Ckt 345kV	Priority Project		
	<b>Current Study Total</b>	<b>\$3,073,000.00</b>	
<b>GEN-2007-025</b>			
GEN-2007-025 Interconnection Cost		\$10,732,000.00	\$10,732,000.00
	<b>Current Study Total</b>	<b>\$10,732,000.00</b>	
<b>GEN-2007-032</b>			
GEN-2007-032 Interconnection Cost		\$2,350,000.00	\$2,350,000.00
See Online Diagram			
	<b>Current Study Total</b>	<b>\$2,350,000.00</b>	
<b>GEN-2007-038</b>			
GEN-2007-038 Interconnection Cost		\$3,663,731.00	\$3,663,731.00
See Online Diagram			
Spearville - Comanche - Medicine Lodge Dbl Ckt 345kV	Priority Project		
Spearville - Knoll - Axtell 345kV	Balanced Portfolio		

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

<b>Interconnection Request</b>	<b>Upgrade Type</b>	<b>Allocated Costs</b>	<b>E + C Costs</b>
Woodward - Medicine Lodge Dbl Ckt 345kV	Priority Project		
Medicine Lodge - Wichita Dbl Ckt 345kV	Priority Project		
	<b>Current Study Total</b>	<b>\$3,663,731.00</b>	
<b>GEN-2007-043</b>			
GEN-2007-043 Interconnection Cost See Online Diagram		\$8,732,000.00	\$8,732,000.00
	<b>Current Study Total</b>	<b>\$8,732,000.00</b>	
<b>GEN-2007-044</b>			
GEN-2007-044 Interconnection Cost See Online Diagram		\$3,073,000.00	\$3,073,000.00
Woodward - Medicine Lodge Dbl Ckt 345kV	Priority Project		
Medicine Lodge - Wichita Dbl Ckt 345kV	Priority Project		
	<b>Current Study Total</b>	<b>\$3,073,000.00</b>	
<b>GEN-2007-046</b>			
GEN-2007-046 Interconnection Cost See Online Diagram		\$545,411.00	\$545,411.00
Hitchland-Woodward Dbl Ckt 345kV	Priority Project		
Woodward - Medicine Lodge Dbl Ckt 345kV	Priority Project		
Finney Switching Station - Holcomb 345KV CKT 2 Assigned to GEN-2006-044; If withdraws will trigger restudy	Assigned to Higher Queued GI		\$6,299,839.00
Medicine Lodge - Wichita Dbl Ckt 345kV	Priority Project		
Tuco - Woodward 345kV	Balanced Portfolio		
	<b>Current Study Total</b>	<b>\$545,411.00</b>	
<b>GEN-2007-048</b>			
GEN-2007-048 Interconnection Cost See Online Diagram		\$3,558,890.00	\$3,558,890.00
Amarillo - Swisher Line Traps		\$77,464.00	\$77,464.00
Hitchland-Woodward Dbl Ckt 345kV	Priority Project		
Tuco - Woodward 345kV	Balanced Portfolio		
Woodward - Medicine Lodge Dbl Ckt 345kV	Priority Project		

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

**Interconnection Request****Upgrade Type****Allocated Costs****E + C Costs****Current Study Total** **\$3,636,354.00****GEN-2007-050**

GEN-2007-050 Interconnection Cost

\$1,214,000.00

\$1,214,000.00

See Online Diagram

Woodward - Medicine Lodge Dbl Ckt 345kV

Priority Project

Medicine Lodge - Wichita Dbl Ckt 345kV

Priority Project

**Current Study Total** **\$1,214,000.00****GEN-2007-051**

GEN-2007-051 Interconnection Cost

\$2,500,000.00

\$2,500,000.00

Woodward - Medicine Lodge Dbl Ckt 345kV

Priority Project

Medicine Lodge - Wichita Dbl Ckt 345kV

Priority Project

**Current Study Total** **\$2,500,000.00****GEN-2007-052**

GEN-2007-052 Interconnection Cost

\$900,000.00

\$900,000.00

**Current Study Total** **\$900,000.00****GEN-2007-057**

GEN-2007-057 Interconnection Cost

\$450,797.00

\$450,797.00

See Online Diagram

Hitchland-Woodward Dbl Ckt 345kV

Priority Project

Woodward - Medicine Lodge Dbl Ckt 345kV

Priority Project

Medicine Lodge - Wichita Dbl Ckt 345kV

Priority Project

Finney Switching Station - Holcomb 345KV CKT 2

Assigned to Higher  
Queued GI

\$6,299,839.00

Assigned to GEN-2006-044; If withdraws will trigger restudy

Tuco - Woodward 345kV

Balanced Portfolio

**Current Study Total** **\$450,797.00****GEN-2007-062**

GEN-2007-062 Interconnection Cost

\$3,807,000.00

\$3,807,000.00

See Online Diagram

Woodward - Medicine Lodge Dbl Ckt 345kV

Priority Project

Medicine Lodge - Wichita Dbl Ckt 345kV

Priority Project

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

**Interconnection Request****Upgrade Type****Allocated Costs****E + C Costs**


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**Current Study Total**      **\$3,807,000.00**


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**GEN-2008-003**

GEN-2008-003 Interconnection Cost		\$1,070,000.00	\$1,070,000.00
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Woodward - Medicine Lodge Dbl Ckt 345kV	Priority Project		
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Medicine Lodge - Wichita Dbl Ckt 345kV	Priority Project		
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**Current Study Total**      **\$1,070,000.00**


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**GEN-2008-008**

GEN-2008-008 Interconnection Cost		\$622,212.00	\$622,212.00
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See Online Diagram

Tuco - Woodward 345kV	Balanced Portfolio		
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Woodward - Medicine Lodge Dbl Ckt 345kV	Priority Project		
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Medicine Lodge - Wichita Dbl Ckt 345kV	Priority Project		
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Hitchland-Woodward Dbl Ckt 345kV	Priority Project		
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**Current Study Total**      **\$622,212.00**


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**GEN-2008-009**

GEN-2008-009 Interconnection Cost		\$872,471.00	\$872,471.00
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See Online Diagram

Potter 230kV line trap		\$75,000.00	\$75,000.00
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Bushland-Potter 230kV line trap		\$75,000.00	\$75,000.00
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Tuco - Woodward 345kV	Balanced Portfolio		
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Woodward - Medicine Lodge Dbl Ckt 345kV	Priority Project		
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Hitchland-Woodward Dbl Ckt 345kV	Priority Project		
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Medicine Lodge - Wichita Dbl Ckt 345kV	Priority Project		
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**Current Study Total**      **\$1,022,471.00**


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**GEN-2008-013**

GEN-2008-013 Interconnection Cost		\$9,277,000.00	\$9,277,000.00
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See Online Diagram

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**Current Study Total**      **\$9,277,000.00**


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**GEN-2008-014**

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

<b>Interconnection Request</b>	<b>Upgrade Type</b>	<b>Allocated Costs</b>	<b>E + C Costs</b>
GEN-2008-014 Interconnection Cost See Online Diagram		\$1,872,918.00	\$1,872,918.00
Tuco - Woodward 345kV	Balanced Portfolio		
Woodward - Medicine Lodge Dbl Ckt 345kV	Priority Project		
Medicine Lodge - Wichita Dbl Ckt 345kV	Priority Project		
Hitchland-Woodward Dbl Ckt 345kV	Priority Project		
	<b>Current Study Total</b>	<b>\$1,872,918.00</b>	
<b>GEN-2008-016</b>			
GEN-2008-016 Interconnection Cost		\$892,129.00	\$892,129.00
Grassland Interchange 230/115KV Transformer CKT 2		\$3,550,000.00	\$3,550,000.00
Tuco - Woodward 345kV	Balanced Portfolio		
Woodward - Medicine Lodge Dbl Ckt 345kV	Priority Project		
Medicine Lodge - Wichita Dbl Ckt 345kV	Priority Project		
Hitchland-Woodward Dbl Ckt 345kV	Priority Project		
	<b>Current Study Total</b>	<b>\$4,442,129.00</b>	
<b>GEN-2008-017</b>			
GEN-2008-017 Interconnection Cost See Online Diagram		\$4,450,000.00	\$4,450,000.00
Spearville - Comanche - Medicine Lodge Dbl Ckt 345kV	Priority Project		
Medicine Lodge - Wichita Dbl Ckt 345kV	Priority Project		
Hitchland-Woodward Dbl Ckt 345kV	Priority Project		
Spearville - Knoll - Axtell 345kV	Balanced Portfolio		
	<b>Current Study Total</b>	<b>\$4,450,000.00</b>	
<b>GEN-2008-018</b>			
GEN-2008-018 Interconnection Cost See Online Diagram		\$2,564,167.00	\$2,564,167.00
Spearville - Comanche - Medicine Lodge Dbl Ckt 345kV	Priority Project		

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

<b>Interconnection Request</b>	<b>Upgrade Type</b>	<b>Allocated Costs</b>	<b>E + C Costs</b>
Medicine Lodge - Wichita Dbl Ckt 345kV	Priority Project		
Spearville - Knoll - Axtell 345kV	Balanced Portfolio		
Hitchland-Woodward Dbl Ckt 345kV	Priority Project		
Woodward - Medicine Lodge Dbl Ckt 345kV	Priority Project		
	<b>Current Study Total</b>	<b>\$2,564,167.00</b>	
<b>GEN-2008-019</b>			
GEN-2008-019 Interconnection Cost		\$3,073,000.00	\$3,073,000.00
See Oneline Diagram			
Woodward - Medicine Lodge Dbl Ckt 345kV	Priority Project		
Medicine Lodge - Wichita Dbl Ckt 345kV	Priority Project		
	<b>Current Study Total</b>	<b>\$3,073,000.00</b>	

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

**F: Cost Allocation per Proposed Network Upgrade**

# Appendix F. - Cost Allocation Per Upgrade Facility

Upgrade Facility	Allocated Costs	E + C Costs
<b>Amarillo - Swisher Line Traps</b>		<b>\$77,464.00</b>
GEN-2007-048	\$77,464.00	
<b>Total</b>	<b>\$77,464.00</b>	
<b>Bushland-Potter 230kV line trap</b>		<b>\$75,000.00</b>
GEN-2008-009	\$75,000.00	
<b>Total</b>	<b>\$75,000.00</b>	
<b>GEN-2006-006 Interconnection Cost</b>		<b>\$5,447,000.00</b>
See Online Diagram		
GEN-2006-006	\$5,447,000.00	
<b>Total</b>	<b>\$5,447,000.00</b>	
<b>GEN-2007-021 Interconnection Cost</b>		<b>\$3,073,000.00</b>
See Online Diagram		
GEN-2007-021	\$3,073,000.00	
<b>Total</b>	<b>\$3,073,000.00</b>	
<b>GEN-2007-025 Interconnection Cost</b>		<b>\$10,732,000.00</b>
GEN-2007-025	\$10,732,000.00	
<b>Total</b>	<b>\$10,732,000.00</b>	
<b>GEN-2007-032 Interconnection Cost</b>		<b>\$2,350,000.00</b>
See Online Diagram		
GEN-2007-032	\$2,350,000.00	
<b>Total</b>	<b>\$2,350,000.00</b>	
<b>GEN-2007-038 Interconnection Cost</b>		<b>\$3,663,731.00</b>
See Online Diagram		
GEN-2007-038	\$3,663,731.00	
<b>Total</b>	<b>\$3,663,731.00</b>	
<b>GEN-2007-043 Interconnection Cost</b>		<b>\$8,732,000.00</b>
See Online Diagram		
GEN-2007-043	\$8,732,000.00	
<b>Total</b>	<b>\$8,732,000.00</b>	
<b>GEN-2007-044 Interconnection Cost</b>		<b>\$3,073,000.00</b>
See Online Diagram		
GEN-2007-044	\$3,073,000.00	



Upgrade Facility	Allocated Costs	E + C Costs
	<b>Total</b>	<b>\$3,073,000.00</b>
<b>GEN-2007-046 Interconnection Cost</b>		<b>\$545,411.00</b>
See Online Diagram		
GEN-2007-046		\$545,411.00
	<b>Total</b>	<b>\$545,411.00</b>
<b>GEN-2007-048 Interconnection Cost</b>		<b>\$3,558,890.00</b>
See Online Diagram		
GEN-2007-048		\$3,558,890.00
	<b>Total</b>	<b>\$3,558,890.00</b>
<b>GEN-2007-050 Interconnection Cost</b>		<b>\$1,214,000.00</b>
See Online Diagram		
GEN-2007-050		\$1,214,000.00
	<b>Total</b>	<b>\$1,214,000.00</b>
<b>GEN-2007-051 Interconnection Cost</b>		<b>\$2,500,000.00</b>
GEN-2007-051		\$2,500,000.00
	<b>Total</b>	<b>\$2,500,000.00</b>
<b>GEN-2007-052 Interconnection Cost</b>		<b>\$900,000.00</b>
GEN-2007-052		\$900,000.00
	<b>Total</b>	<b>\$900,000.00</b>
<b>GEN-2007-057 Interconnection Cost</b>		<b>\$450,797.00</b>
See Online Diagram		
GEN-2007-057		\$450,797.00
	<b>Total</b>	<b>\$450,797.00</b>
<b>GEN-2007-062 Interconnection Cost</b>		<b>\$3,807,000.00</b>
See Online Diagram		
GEN-2007-062		\$3,807,000.00
	<b>Total</b>	<b>\$3,807,000.00</b>
<b>GEN-2008-003 Interconnection Cost</b>		<b>\$1,070,000.00</b>
GEN-2008-003		\$1,070,000.00
	<b>Total</b>	<b>\$1,070,000.00</b>
<b>GEN-2008-008 Interconnection Cost</b>		<b>\$622,212.00</b>
See Online Diagram		
GEN-2008-008		\$622,212.00
	<b>Total</b>	<b>\$622,212.00</b>

<b>Upgrade Facility</b>	<b>Allocated Costs</b>	<b>E + C Costs</b>
<b>GEN-2008-009 Interconnection Cost</b>		<b>\$872,471.00</b>
See Online Diagram		
GEN-2008-009	\$872,471.00	
<b>Total</b>	<b>\$872,471.00</b>	
<b>GEN-2008-013 Interconnection Cost</b>		<b>\$9,277,000.00</b>
See Online Diagram		
GEN-2008-013	\$9,277,000.00	
<b>Total</b>	<b>\$9,277,000.00</b>	
<b>GEN-2008-014 Interconnection Cost</b>		<b>\$1,872,918.00</b>
See Online Diagram		
GEN-2008-014	\$1,872,918.00	
<b>Total</b>	<b>\$1,872,918.00</b>	
<b>GEN-2008-016 Interconnection Cost</b>		<b>\$892,129.00</b>
GEN-2008-016	\$892,129.00	
<b>Total</b>	<b>\$892,129.00</b>	
<b>GEN-2008-017 Interconnection Cost</b>		<b>\$4,450,000.00</b>
See Online Diagram		
GEN-2008-017	\$4,450,000.00	
<b>Total</b>	<b>\$4,450,000.00</b>	
<b>GEN-2008-018 Interconnection Cost</b>		<b>\$2,564,167.00</b>
See Online Diagram		
GEN-2008-018	\$2,564,167.00	
<b>Total</b>	<b>\$2,564,167.00</b>	
<b>GEN-2008-019 Interconnection Cost</b>		<b>\$3,073,000.00</b>
See Online Diagram		
GEN-2008-019	\$3,073,000.00	
<b>Total</b>	<b>\$3,073,000.00</b>	
<b>Grassland Interchange 230/115KV Transformer CKT 2</b>		<b>\$3,550,000.00</b>
GEN-2008-016	\$3,550,000.00	
<b>Total</b>	<b>\$3,550,000.00</b>	
<b>Potter 230kV line trap</b>		<b>\$75,000.00</b>
GEN-2008-009	\$75,000.00	
<b>Total</b>	<b>\$75,000.00</b>	

<b>Upgrade Facility</b>	<b>Allocated Costs</b>	<b>E + C Costs</b>
<b>Spearville (SPEARVL2) 345/230/13.8KV Transformer CKT 2</b>		<b>\$6,400,000.00</b>
GEN-2006-006	\$6,400,000.00	
<b>Total</b>	<b>\$6,400,000.00</b>	
<b>Current Study Upgrades Total</b>		<b>\$84,918,190.00</b>

## **G: ACCC analysis (constraints for mitigation)**

Priority Projects and Balanced Portfolio Projects not included in this analysis to determine which interconnection requests are dependent upon those upgrades.

SEASON	SOURCE	DIRECTION	MONITORED ELEMENT COMMON NAME	RATEB	TDF	TC%LOADING	CONTEGENCY NAME
11G	G06_006		NCONV	1328	0.23196		HOLCOMB - SPEARVILLE 345KV CKT 1
11G	G06_006		NCONV	1328	0.23237		HOLCOMB - SPEARVILLE 345KV CKT 1
11G	G06_006	FROM->TO	SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1	336	0.92	132.01	MULLERGREN - SPEARVILLE 230KV CKT 1
11G	G07_021		NCONV	1195	0.46237		NORTHWEST - TATONGA7 345.00 345KV CKT 1
11G	G07_021		NCONV	1195	0.46293		NORTHWEST - TATONGA7 345.00 345KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46297	108.083	ALVA - CHEROKEE SW 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46266	112.6016	ARAPAHO - HAMON BUTLER 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46322	109.1464	ARAPAHO - HAMON BUTLER 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46266	112.5947	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46322	109.1411	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.45229	111.8288	ARCADIA - NORTHWEST 345KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.45284	108.3299	ARCADIA - NORTHWEST 345KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46237	111.0793	BASE CASE
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46293	107.9816	BASE CASE
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46293	108.0553	BEAVER JCT - FT SUPPLY 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46243	111.5366	BRANTLEY - DURHAM 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.463	108.1329	BRANTLEY - DURHAM 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46243	111.556	BRANTLEY - MORWOOD 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.463	108.1518	BRANTLEY - MORWOOD 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46242	111.622	BUFBEAR2 - BUFFALO 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46298	108.2179	BUFBEAR2 - BUFFALO 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46242	111.515	BUFFALO - WEST 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46298	108.1172	BUFFALO - WEST 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46253	111.5404	CALUMET - EL RENO 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46309	108.1373	CALUMET - EL RENO 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46253	111.6425	CALUMET - WATONGA SW 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46309	108.2389	CALUMET - WATONGA SW 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.4626	112.1096	CANTON - OKEENE 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46317	108.6899	CANTON - OKEENE 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.4626	112.1794	CANTON - TALOGA 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46317	108.7582	CANTON - TALOGA 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.4634	116.3374	CEDARDALE - MOORELAND 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46396	112.7918	CEDARDALE - MOORELAND 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.4634	116.2413	CEDARDALE - OKEENE 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46396	112.7055	CEDARDALE - OKEENE 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46242	112.0148	CIMARRON - EL RENO 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46298	108.6043	CIMARRON - EL RENO 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46234	111.4574	CIMARRON - JENSEN TAP 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.4629	108.0668	CIMARRON - JENSEN TAP 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.44237	108.7014	CIMARRON - NORTHWEST 345KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.4429	105.347	CIMARRON - NORTHWEST 345KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46387	118.1264	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46444	114.4777	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46423	118.5639	CLEO CORNER - MEN TAP 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.4648	114.8771	CLEO CORNER - MEN TAP 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46257	112.3304	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46313	108.9349	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46257	112.2764	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1

11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46313	108.8818	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46241	112.1397	CLINTON JUNCTION - ELK CITY 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46297	108.7608	CLINTON JUNCTION - ELK CITY 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46266	112.0446	CORDELL - GOTEBO 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46322	108.6154	CORDELL - GOTEBO 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46266	112.5189	CORDELL - INDUSTRIAL PARK 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46322	109.0715	CORDELL - INDUSTRIAL PARK 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46284	108.0307	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46503	114.3054	DEWEY - IODINE 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46559	110.7235	DEWEY - IODINE 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46496	119.494	DEWEY - SOUTHDARD 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46553	115.6722	DEWEY - SOUTHDARD 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46319	113.372	DOVER SW - HENESSEY 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46375	109.8931	DOVER SW - HENESSEY 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4634	115.2565	DOVER SW - OKEENE 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46397	111.7167	DOVER SW - OKEENE 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46243	111.5039	DURHAM - SWEETWATER 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.463	108.1008	DURHAM - SWEETWATER 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46368	128.1374	EL RENO - ROMAN NOSE 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46424	123.269	EL RENO - ROMAN NOSE 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.463	115.0389	ELK CITY - RHWIND4 138.00 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46357	111.4292	ELK CITY - RHWIND4 138.00 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46109	109.8378	ELK CITY 230KV - SWEETWAT6 230.00 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46163	106.6484	ELK CITY 230KV - SWEETWAT6 230.00 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46109	109.8378	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46163	106.6484	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4695	111.7369	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.47005	108.3915	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46849	125.5353	FPL SWITCH - MOORELAND 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46906	120.5291	FPL SWITCH - MOORELAND 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46909	120.0354	FPL SWITCH - WOODWARD 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46966	115.9217	FPL SWITCH - WOODWARD 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4622	110.6779	G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4624	111.4465	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46297	108.0485	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.7476	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2651	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.7476	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2651	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0497	GEN300002 1-THOMAS HILL UNIT 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.6506	GEN300003 1-THOMAS HILL UNIT 3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2991	GEN300003 1-THOMAS HILL UNIT 3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.0387	GEN300006 1-NEW MADRID UNIT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7041	GEN300006 1-NEW MADRID UNIT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.0383	GEN300007 1-NEW MADRID UNIT 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6991	GEN300007 1-NEW MADRID UNIT 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0786	GEN318007 1-5MOROW161 161.00
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.5414	GEN334070 1-LEWIS CREEK 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1797	GEN334070 1-LEWIS CREEK 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.0449	GEN334440 1-SABINE UNIT 4
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.702	GEN334440 1-SABINE UNIT 4
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.9123	GEN334441 1-SABINE UNIT 5
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5633	GEN334441 1-SABINE UNIT 5

11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.0167	GEN335204 1-NELSON UNIT 4
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6727	GEN335204 1-NELSON UNIT 4
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.1225	GEN335206 1-NELSON UNIT 6
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7836	GEN335206 1-NELSON UNIT 6
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	113.1719	GEN335831 1-RIVERBEND UNIT#1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.8834	GEN335831 1-RIVERBEND UNIT#1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	113.4866	GEN336153 1-WATERFORD UNIT#3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	110.2095	GEN336153 1-WATERFORD UNIT#3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.6853	GEN336170 1-GULF OXY U4
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.3265	GEN336170 1-GULF OXY U4
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.054	GEN336801 1-BAXTER WILSON UNIT #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.713	GEN336801 1-BAXTER WILSON UNIT #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.334	GEN336831 1-BAXTER WILSON SES
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.0064	GEN336831 1-BAXTER WILSON SES
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0458	GEN337006 1-DUKE MCADAMS G1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0458	GEN337007 1-DUKE MCADAMS G2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.5207	GEN337041 1-GERALD ANDRUS
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.2026	GEN337041 1-GERALD ANDRUS
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0524	GEN337125 6-LS POWER BATESVILLE
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0711	GEN337428 1-PERYVILLE UNIT #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0608	GEN337429 1-PERYVILLE UNIT #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0711	GEN337430 1-PERYVILLE UNIT #3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0608	GEN337432 1-PERYVILLE UNIT #5
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.6928	GEN337652 1-WHITE BLUFF UNIT #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.3813	GEN337652 1-WHITE BLUFF UNIT #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.5909	GEN337653 1-WHITE BLUFF UNIT #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.2737	GEN337653 1-WHITE BLUFF UNIT #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.8793	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.5746	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	113.2312	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.9423	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.6958	GEN338143 1-INDEPENDENCE UNIT #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.3868	GEN338143 1-INDEPENDENCE UNIT #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.7114	GEN338146 1-INDEPENDENCE UNIT #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.4029	GEN338146 1-INDEPENDENCE UNIT #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.4788	GEN338189 1-LS POWER OSCEOLA UNIT G1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.1605	GEN338189 1-LS POWER OSCEOLA UNIT G1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.4204	GEN501801 1-DOLET HILLS UNIT1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.0925	GEN501801 1-DOLET HILLS UNIT1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.1263	GEN501812 1-RODEMACHER UNIT 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7873	GEN501812 1-RODEMACHER UNIT 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.2776	GEN501813 1-RODEMACHER UNIT 3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.9457	GEN501813 1-RODEMACHER UNIT 3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.5143	GEN505432 1-SIKESTON
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1537	GEN505432 1-SIKESTON
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0527	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0527	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.049	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.0196	GEN509394 1-FLINT CREEK
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.674	GEN509394 1-FLINT CREEK
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.2926	GEN509403 1-PIRKEY GENERATION
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.9579	GEN509403 1-PIRKEY GENERATION
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.0337	GEN509404 1-WELSH #1

11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6877	GEN509404 1-WELSH #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.0337	GEN509405 1-WELSH #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6877	GEN509405 1-WELSH #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.0337	GEN509406 1-WELSH #3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6877	GEN509406 1-WELSH #3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.6561	GEN509409 1-WILKES #3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.299	GEN509409 1-WILKES #3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.8691	GEN511839 1-NORTHEASTERN STATION #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5176	GEN511839 1-NORTHEASTERN STATION #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.9088	GEN511840 1-NORTHEASTERN STATION #3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5582	GEN511840 1-NORTHEASTERN STATION #3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.9179	GEN511841 1-NORTHEASTERN STATION #4
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5677	GEN511841 1-NORTHEASTERN STATION #4
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.5118	GEN511843 1-RIVERSIDE STATION #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1477	GEN511843 1-RIVERSIDE STATION #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.7825	GEN512688 2-GRDA1 GSU2 22
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.4341	GEN512688 2-GRDA1 GSU2 22
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.8251	GEN512689 1-GRDA1 GSU1 22
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.472	GEN512689 1-GRDA1 GSU1 22
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.6669	GEN514805 1-SOONER UNIT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.3327	GEN514805 1-SOONER UNIT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.2223	GEN514806 1-SOONER UNIT 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.8602	GEN514806 1-SOONER UNIT 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.5174	GEN514899 1-REDBUD1S
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.14	GEN514899 1-REDBUD1S
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.5174	GEN514900 1-REDBUD2S
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.14	GEN514900 1-REDBUD2S
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.5807	GEN514910 2-REDBUD GEN
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2045	GEN514910 2-REDBUD GEN
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.5807	GEN514911 2-REDBUD GEN
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2045	GEN514911 2-REDBUD GEN
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.563	GEN515041 1-SEMINOLE 2G
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1963	GEN515041 1-SEMINOLE 2G
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.6321	GEN515042 1-SEMINOLE 3G
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2679	GEN515042 1-SEMINOLE 3G
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.991	GEN515223 1-MUSKOGEE 4G
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.641	GEN515223 1-MUSKOGEE 4G
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.9768	GEN515225 1-MUSKOGEE 5G
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6262	GEN515225 1-MUSKOGEE 5G
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.1287	GEN515226 1-MUSKOGEE 6G
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7866	GEN515226 1-MUSKOGEE 6G
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	105.5012	GEN515364 1-CENT 11 0.6000
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	102.5517	GEN515364 1-CENT 11 0.6000
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	106.9341	GEN515389 1-TLGAWND1 34.500
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	103.9312	GEN515389 1-TLGAWND1 34.500
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	103.6207	GEN515393 1-OGEWND2G
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	100.7482	GEN515393 1-OGEWND2G
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	106.2907	GEN515397 1-OUSPRT 1 34.500
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	103.3032	GEN515397 1-OUSPRT 1 34.500
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	107.6475	GEN515790 1-FPLWND2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	104.6411	GEN515790 1-FPLWND2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	107.5826	GEN520922 1-SLEEPING 138.00
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	104.5789	GEN520922 1-SLEEPING 138.00



11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.8888	GEN520947 1-HUGO1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5372	GEN520947 1-HUGO1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	108.7313	GEN520997 1-MORLND2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	105.3878	GEN520997 1-MORLND2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	110.3693	GEN521120 1-BUFBEAR2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.2902	GEN521120 1-BUFBEAR2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	110.5726	GEN523971 1-HARRINGTON GEN #1 24 KV
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5194	GEN523971 1-HARRINGTON GEN #1 24 KV
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	110.5711	GEN523972 1-HARRINGTON GEN #2 24 KV
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5181	GEN523972 1-HARRINGTON GEN #2 24 KV
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	110.5713	GEN523973 1-HARRINGTON GEN #3 24 KV
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5182	GEN523973 1-HARRINGTON GEN #3 24 KV
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	110.6036	GEN525561 1-TOLK GEN #1 24 KV
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5687	GEN525561 1-TOLK GEN #1 24 KV
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	110.5584	GEN525562 1-TOLK GEN #2 24 KV
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5306	GEN525562 1-TOLK GEN #2 24 KV
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.8895	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5536	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.8856	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.55	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.8707	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5342	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0765	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	113.0136	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.7393	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.5256	GEN541151 3-SIBLEY GENERATING UNIT #3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1679	GEN541151 3-SIBLEY GENERATING UNIT #3
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.8964	GEN542951 5-HAWTHORN UNIT #5
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5625	GEN542951 5-HAWTHORN UNIT #5
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.1684	GEN542955 1-LACYGNE UNIT #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.8443	GEN542955 1-LACYGNE UNIT #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.0871	GEN542956 2-LACYGNE UNIT #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7589	GEN542956 2-LACYGNE UNIT #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.0986	GEN542957 1-IATAN UNIT #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.778	GEN542957 1-IATAN UNIT #1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.3001	GEN542962 2-IATAN UNIT #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.9873	GEN542962 2-IATAN UNIT #2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0757	GEN546702 1-NM GEN N1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	104.0099	GEN560180 1-G07-51 0.6000
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	101.1383	GEN560180 1-G07-51 0.6000
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	100.7761	GEN560221 1-G07-62-1 0.6900
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	100.7761	GEN560222 1-G07-62-2 0.6900
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	100.9993	GEN560223 1-G07-62-3 0.6900
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	100.9394	GEN560224 1-G07-62-4 0.6900
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	108.9294	GEN560603 1-G07-06 0.6000
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	105.8834	GEN560603 1-G07-06 0.6000
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	112.1509	GEN640009 1-COOPER NUCLEAR STATION
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.8325	GEN640009 1-COOPER NUCLEAR STATION
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.503	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1523	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0804	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.7595	GEN645001 1-FORT CALHOUN 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.4158	GEN645001 1-FORT CALHOUN 1

11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.8673	GEN645011 1-NEBRASKA CITY 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5299	GEN645011 1-NEBRASKA CITY 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	111.9972	GEN645012 2-NEBRASKA CITY 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6681	GEN645012 2-NEBRASKA CITY 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46387	118.3311	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46444	114.6719	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46269	112.1166	GOLTRY - HELENAT2 69.000 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46326	108.6949	GOLTRY - HELENAT2 69.000 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46269	112.0813	GOLTRY - IMO 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46326	108.6603	GOLTRY - IMO 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.45841	110.966	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46195	110.381	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46251	107.2513	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4616	110.2526	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46215	107.0815	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46266	112.604	HAMON BUTLER - PUTNAM 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46322	109.1486	HAMON BUTLER - PUTNAM 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46269	112.2526	HELENAT2 69.000 - SALINE 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46326	108.8285	HELENAT2 69.000 - SALINE 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46319	113.199	HENESSEY - WAUKOMIS 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46375	109.7235	HENESSEY - WAUKOMIS 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46423	118.4977	IMO TAP - MEN TAP 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4648	114.8137	IMO TAP - MEN TAP 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46261	111.7847	IMO TAP - SOUTH 4TH ST 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46317	108.3682	IMO TAP - SOUTH 4TH ST 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46503	114.4913	IODINE - WWRDEHV4 138.00 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46559	110.905	IODINE - WWRDEHV4 138.00 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46272	113.3365	KNOBHILL - MOORELAND 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46328	109.8665	KNOBHILL - MOORELAND 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46269	112.3022	KNOBHILL - SALINE 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46326	108.8771	KNOBHILL - SALINE 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46272	113.2594	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46328	109.7936	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46153	112.2094	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	108.8922	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46284	108.0417	MARSHALL - WOODRING 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4655	108.0399	MINGO - SETAB 345KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46385	119.9023	MOORELAND - NINMILE 4 138.00 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46442	115.9842	MOORELAND - NINMILE 4 138.00 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46243	111.5559	MOREWOOD SW - MORWOOD 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.463	108.1517	MOREWOOD SW - MORWOOD 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46385	119.8459	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46442	115.9187	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46307	114.37	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46364	110.7855	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46286	111.5192	MULLERGREEN - SPEARVILLE 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46343	108.1288	MULLERGREEN - SPEARVILLE 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46138	110.4658	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46194	107.3735	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46146	110.6051	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	107.5143	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46324	113.3265	OGE3TERM1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4638	109.8401	OGE3TERM1

11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46261	108.0349	OGE3TERM10
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46238	111.4808	OGE3TERM4
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46295	108.0922	OGE3TERM4
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46259	112.0413	OKEENE - WATONGA SW 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46315	108.6242	OKEENE - WATONGA SW 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46266	112.6578	PUTNAM - TALOGA 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46322	109.2008	PUTNAM - TALOGA 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46496	118.6528	ROMAN NOSE - SOUTHARD 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46553	114.8624	ROMAN NOSE - SOUTHARD 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4616	110.508	SPP-SWPS-02
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46215	107.333	SPP-SWPS-02
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4616	109.7417	SPP-SWPS-02A
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46215	106.5528	SPP-SWPS-02A
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46159	110.2139	SPP-SWPS-03
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46213	107.0426	SPP-SWPS-03
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4616	110.508	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46215	107.333	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4616	110.508	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46215	107.333	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4625	112.1506	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46306	108.7249	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46254	111.5165	VICI - WOODWARD 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46311	108.1183	VICI - WOODWARD 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46319	113.1243	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46375	109.6499	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46261	111.6237	WAUKOMIS TAP - WOODRING 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46317	108.213	WAUKOMIS TAP - WOODRING 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46311	111.8448	WOODWARD - WOODWARD 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46368	108.4201	WOODWARD - WOODWARD 69KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46356	111.8785	WOODWARD - WWRDEHV4 138.00 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46412	108.4776	WOODWARD - WWRDEHV4 138.00 138KV CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46311	112.5408	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46368	109.0968	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46444	111.1889	WWRDEHV7 345.00 (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46501	107.7598	WWRDEHV7 345.00 (WWDEHV) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46444	111.1711	WWRDEHV7 345.00 (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
11G	G07_021	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.465	107.7502	WWRDEHV7 345.00 (WWDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
11G	G07_032	TO->FROM	CLINTON - G07-32T	138.00 138KV CKT 1	143	0.3945	108.9971	CAN_GAS4 138.00 - HINTON 138KV CKT 1
11G	G07_032	TO->FROM	CLINTON - G07-32T	138.00 138KV CKT 1	143	0.39492	101.1696	CAN_GAS4 138.00 - HINTON 138KV CKT 1
11G	G07_032	TO->FROM	CLINTON - G07-32T	138.00 138KV CKT 1	143	0.3945	107.9097	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
11G	G07_032	TO->FROM	CLINTON - G07-32T	138.00 138KV CKT 1	143	0.39492	100.0852	CAN_GAS4 138.00 - JENSEN ROAD 138KV CKT 1
11G	G07_032	TO->FROM	CLINTON - G07-32T	138.00 138KV CKT 1	143	0.99449	106.3337	CLINTON JUNCTION - G07-32T 138.00 138KV CKT 1
11G	G07_032	TO->FROM	CLINTON - G07-32T	138.00 138KV CKT 1	143	0.3945	109.3047	HINTON - WEATHERFORD JCT. 138KV CKT 1
11G	G07_032	TO->FROM	CLINTON - G07-32T	138.00 138KV CKT 1	143	0.39492	101.4753	HINTON - WEATHERFORD JCT. 138KV CKT 1
11G	G07_032	TO->FROM	CLINTON - G07-32T	138.00 138KV CKT 1	143	0.3945	112.9977	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
11G	G07_032	TO->FROM	CLINTON - G07-32T	138.00 138KV CKT 1	143	0.39492	105.3027	WEATHERFORD JCT. - WEATHERFORD SOUTHEAST 138KV CKT 1
11G	G07_032	TO->FROM	CLINTON - G07-32T	138.00 138KV CKT 1	143	0.3498	100.7294	WEATHERFORD TAP - WEATHERFORD WIND FARM 138KV CKT 1
11G	G07_032	TO->FROM	CLINTON JUNCTION - G07-32T	138.00 138KV CKT 1	143	0.99449	105.0001	CLINTON - G07-32T 138.00 138KV CKT 1
11G	G07_032	TO->FROM	CLINTON JUNCTION - G07-32T	138.00 138KV CKT 1	143	0.99449	103.4172	CLINTON - WEATHERFORD 138KV CKT 1
11G	G07_032	TO->FROM	CLINTON JUNCTION - G07-32T	138.00 138KV CKT 1	143	0.99449	100.9929	HYDRO - WEATHERFORD 138KV CKT 1
11G	G07_038		NCONV		1328	0.23198		HOLCOMB - SPEARVILLE 345KV CKT 1
11G	G07_038		NCONV		1328	0.23237		HOLCOMB - SPEARVILLE 345KV CKT 1
11G	G07_044		NCONV		1195	0.46201		NORTHWEST - TATONGA7 345.00 345KV CKT 1

11G	G07_044		NCONV		1195	0.46293			NORTHWEST - TATONGA7 345.00 345KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46297	108.083		ALVA - CHEROKEE SW 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.4623	114.4255		ARAPAHO - HAMON BUTLER 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46322	109.1464		ARAPAHO - HAMON BUTLER 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.4623	114.4182		ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46322	109.1411		ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.45194	113.6956		ARCADIA - NORTHWEST 345KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.45284	108.3299		ARCADIA - NORTHWEST 345KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46201	112.8701		BASE CASE
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46293	107.9816		BASE CASE
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46293	108.0553		BEAVER JCT - FT SUPPLY 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46208	113.3377		BRANTLEY - DURHAM 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.463	108.1329		BRANTLEY - DURHAM 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46208	113.3573		BRANTLEY - MORWOOD 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.463	108.1518		BRANTLEY - MORWOOD 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46206	113.4257		BUFBEAR2 - BUFFALO 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46298	108.2179		BUFBEAR2 - BUFFALO 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46206	113.3153		BUFFALO - WEST 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46298	108.1172		BUFFALO - WEST 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46217	113.3416		CALUMET - EL RENO 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46309	108.1373		CALUMET - EL RENO 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46217	113.444		CALUMET - WATONGA SW 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46309	108.2389		CALUMET - WATONGA SW 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46224	113.9218		CANTON - OKEENE 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46317	108.6899		CANTON - OKEENE 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46224	113.993		CANTON - TALOGA 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46317	108.7582		CANTON - TALOGA 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46304	118.2461		CEDARDALE - MOORELAND 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46396	112.7918		CEDARDALE - MOORELAND 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46304	118.1533		CEDARDALE - OKEENE 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46396	112.7055		CEDARDALE - OKEENE 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46206	113.8242		CIMARRON - EL RENO 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46298	108.6043		CIMARRON - EL RENO 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46198	113.2555		CIMARRON - JENSEN TAP 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.4629	108.0668		CIMARRON - JENSEN TAP 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.44202	110.4899		CIMARRON - NORTHWEST 345KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.4429	105.347		CIMARRON - NORTHWEST 345KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46351	120.0904		CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46444	114.4777		CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46387	120.5394		CLEO CORNER - MEN TAP 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.4648	114.8771		CLEO CORNER - MEN TAP 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46221	114.1368		CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46313	108.9349		CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46221	114.0821		CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46313	108.8818		CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46205	113.9423		CLINTON JUNCTION - ELK CITY 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46297	108.7608		CLINTON JUNCTION - ELK CITY 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.4623	113.8575		CORDELL - GOTEBO 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46322	108.6154		CORDELL - GOTEBO 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.4623	114.3412		CORDELL - INDUSTRIAL PARK 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46322	109.0715		CORDELL - INDUSTRIAL PARK 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46284	108.0307		COTTONWOOD CREEK - MARSHALL 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1		1195	0.46467	116.2032		DEWEY - IODINE 138KV CKT 1

11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46559	110.7235	DEWEY - IODINE 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4646	121.5603	DEWEY - SOUTHARD 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46553	115.6722	DEWEY - SOUTHARD 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46283	115.2254	DOVER SW - HENESSEY 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46375	109.8931	DOVER SW - HENESSEY 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46304	117.1432	DOVER SW - OKEENE 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46397	111.7167	DOVER SW - OKEENE 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46208	113.3045	DURHAM - SWEETWATER 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.463	108.1008	DURHAM - SWEETWATER 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46332	131.3999	EL RENO - ROMAN NOSE 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46424	123.269	EL RENO - ROMAN NOSE 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46264	116.9357	ELK CITY - RHWIND4 138.00 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46357	111.4292	ELK CITY - RHWIND4 138.00 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46073	111.6469	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46163	106.6484	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46073	111.6468	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46163	106.6484	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46914	113.5414	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.47005	108.3915	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46813	128.6522	FPL SWITCH - MOORELAND 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46906	120.5291	FPL SWITCH - MOORELAND 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46873	122.3974	FPL SWITCH - WOODWARD 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46966	115.9217	FPL SWITCH - WOODWARD 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46184	112.4601	G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46205	113.2422	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46297	108.0485	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.5943	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2651	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.5943	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2651	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0497	GEN300002 1-THOMAS HILL UNIT 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.4251	GEN300003 1-THOMAS HILL UNIT 3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2991	GEN300003 1-THOMAS HILL UNIT 3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.8049	GEN300006 1-NEW MADRID UNIT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7041	GEN300006 1-NEW MADRID UNIT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.8046	GEN300007 1-NEW MADRID UNIT 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6991	GEN300007 1-NEW MADRID UNIT 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0786	GEN318007 1-5MOROW161 161.00
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.3212	GEN334070 1-LEWIS CREEK 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1797	GEN334070 1-LEWIS CREEK 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.813	GEN334440 1-SABINE UNIT 4
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.702	GEN334440 1-SABINE UNIT 4
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.6835	GEN334441 1-SABINE UNIT 5
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5633	GEN334441 1-SABINE UNIT 5
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.7853	GEN335204 1-NELSON UNIT 4
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6727	GEN335204 1-NELSON UNIT 4
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.8887	GEN335206 1-NELSON UNIT 6
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7836	GEN335206 1-NELSON UNIT 6
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.9138	GEN335831 1-RIVERBEND UNIT#1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.8834	GEN335831 1-RIVERBEND UNIT#1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	115.2216	GEN336153 1-WATERFORD UNIT#3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	110.2095	GEN336153 1-WATERFORD UNIT#3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.4617	GEN336170 1-GULF OXY U4

11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.3265	GEN336170 1-GULF OXY U4
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.8211	GEN336801 1-BAXTER WILSON UNIT #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.713	GEN336801 1-BAXTER WILSON UNIT #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.0944	GEN336831 1-BAXTER WILSON SES
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.0064	GEN336831 1-BAXTER WILSON SES
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0458	GEN337006 1-DUKE MCADAMS G1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0458	GEN337007 1-DUKE MCADAMS G2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.2764	GEN337041 1-GERALD ANDRUS
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.2026	GEN337041 1-GERALD ANDRUS
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0524	GEN337125 6-LS POWER BATESVILLE
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0711	GEN337428 1-PERYVILLE UNIT #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0608	GEN337429 1-PERYVILLE UNIT #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0711	GEN337430 1-PERYVILLE UNIT #3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0608	GEN337432 1-PERYVILLE UNIT #5
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.4452	GEN337652 1-WHITE BLUFF UNIT #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.3813	GEN337652 1-WHITE BLUFF UNIT #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.3469	GEN337653 1-WHITE BLUFF UNIT #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.2737	GEN337653 1-WHITE BLUFF UNIT #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.6286	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.5746	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.9735	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.9423	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.447	GEN338143 1-INDEPENDENCE UNIT #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.3868	GEN338143 1-INDEPENDENCE UNIT #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.4623	GEN338146 1-INDEPENDENCE UNIT #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.4029	GEN338146 1-INDEPENDENCE UNIT #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.2346	GEN338189 1-LS POWER OSCEOLA UNIT G1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.1605	GEN338189 1-LS POWER OSCEOLA UNIT G1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.1811	GEN501801 1-DOLET HILLS UNIT1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.0925	GEN501801 1-DOLET HILLS UNIT1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.8924	GEN501812 1-RODEMACHER UNIT 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7873	GEN501812 1-RODEMACHER UNIT 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.0402	GEN501813 1-RODEMACHER UNIT 3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.9457	GEN501813 1-RODEMACHER UNIT 3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.2937	GEN505432 1-SIKESTON
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1537	GEN505432 1-SIKESTON
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0527	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0527	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.049	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.7888	GEN509394 1-FLINT CREEK
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.674	GEN509394 1-FLINT CREEK
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.0561	GEN509403 1-PIRKEY GENERATION
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.9579	GEN509403 1-PIRKEY GENERATION
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.8035	GEN509404 1-WELSH #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6877	GEN509404 1-WELSH #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.8035	GEN509405 1-WELSH #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6877	GEN509405 1-WELSH #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.8035	GEN509406 1-WELSH #3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6877	GEN509406 1-WELSH #3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.4336	GEN509409 1-WILKES #3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.299	GEN509409 1-WILKES #3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.6414	GEN511839 1-NORTHEASTERN STATION #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5176	GEN511839 1-NORTHEASTERN STATION #2

11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.6813	GEN511840 1-NORTHEASTERN STATION #3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5582	GEN511840 1-NORTHEASTERN STATION #3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.6901	GEN511841 1-NORTHEASTERN STATION #4
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5677	GEN511841 1-NORTHEASTERN STATION #4
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.293	GEN511843 1-RIVERSIDE STATION #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1477	GEN511843 1-RIVERSIDE STATION #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.5573	GEN512688 2-GRDA1 GSU2 22
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.4341	GEN512688 2-GRDA1 GSU2 22
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.5994	GEN512689 1-GRDA1 GSU1 22
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.472	GEN512689 1-GRDA1 GSU1 22
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.4412	GEN514805 1-SOONER UNIT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.3327	GEN514805 1-SOONER UNIT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.0079	GEN514806 1-SOONER UNIT 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.8602	GEN514806 1-SOONER UNIT 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.3031	GEN514899 1-REDBUD1S
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.14	GEN514899 1-REDBUD1S
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.3031	GEN514900 1-REDBUD2S
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.14	GEN514900 1-REDBUD2S
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.3654	GEN514910 2-REDBUD GEN
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2045	GEN514910 2-REDBUD GEN
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.3654	GEN514911 2-REDBUD GEN
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2045	GEN514911 2-REDBUD GEN
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.3454	GEN515041 1-SEMINOLE 2G
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1963	GEN515041 1-SEMINOLE 2G
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.4133	GEN515042 1-SEMINOLE 3G
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2679	GEN515042 1-SEMINOLE 3G
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.763	GEN515223 1-MUSKOGEE 4G
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.641	GEN515223 1-MUSKOGEE 4G
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.7491	GEN515225 1-MUSKOGEE 5G
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6262	GEN515225 1-MUSKOGEE 5G
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.8982	GEN515226 1-MUSKOGEE 6G
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7866	GEN515226 1-MUSKOGEE 6G
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	107.1879	GEN515364 1-CENT 11 0.6000
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	102.5517	GEN515364 1-CENT 11 0.6000
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	108.6804	GEN515389 1-TLGAWND1 34.500
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	103.9312	GEN515389 1-TLGAWND1 34.500
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	105.2897	GEN515393 1-OGEWND2G
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	100.7482	GEN515393 1-OGEWND2G
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	108.0076	GEN515397 1-OUSPRT 1 34.500
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	103.3032	GEN515397 1-OUSPRT 1 34.500
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	109.3824	GEN515790 1-FPLWND2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	104.6411	GEN515790 1-FPLWND2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	109.3162	GEN520922 1-SLEEPING 138.00
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	104.5789	GEN520922 1-SLEEPING 138.00
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.6627	GEN520947 1-HUGO1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5372	GEN520947 1-HUGO1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	110.5003	GEN520997 1-MORLND2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	105.3878	GEN520997 1-MORLND2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	112.1454	GEN521120 1-BUFBEAR2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.2902	GEN521120 1-BUFBEAR2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	112.3389	GEN523971 1-HARRINGTON GEN #1 24 KV
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5194	GEN523971 1-HARRINGTON GEN #1 24 KV
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	112.3374	GEN523972 1-HARRINGTON GEN #2 24 KV

11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5181	GEN523972 1-HARRINGTON GEN #2 24 KV
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	112.3375	GEN523973 1-HARRINGTON GEN #3 24 KV
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5182	GEN523973 1-HARRINGTON GEN #3 24 KV
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	112.362	GEN525561 1-TOLK GEN #1 24 KV
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5687	GEN525561 1-TOLK GEN #1 24 KV
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	112.3136	GEN525562 1-TOLK GEN #2 24 KV
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5306	GEN525562 1-TOLK GEN #2 24 KV
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.6527	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5536	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.6489	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.55	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.6345	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5342	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0765	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.7473	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.7393	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.3017	GEN541151 3-SIBLEY GENERATING UNIT #3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1679	GEN541151 3-SIBLEY GENERATING UNIT #3
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.6619	GEN542951 5-HAWTHORN UNIT #5
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5625	GEN542951 5-HAWTHORN UNIT #5
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.9266	GEN542955 1-LACYGNE UNIT #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.8443	GEN542955 1-LACYGNE UNIT #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.8464	GEN542956 2-LACYGNE UNIT #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7589	GEN542956 2-LACYGNE UNIT #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.8572	GEN542957 1-IATAN UNIT #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.778	GEN542957 1-IATAN UNIT #1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	114.0525	GEN542962 2-IATAN UNIT #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.9873	GEN542962 2-IATAN UNIT #2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0757	GEN546702 1-NM GEN N1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	105.6741	GEN560180 1-G07-51 0.6000
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	101.1383	GEN560180 1-G07-51 0.6000
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	102.4218	GEN560221 1-G07-62-1 0.6900
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	102.4218	GEN560222 1-G07-62-2 0.6900
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	102.6177	GEN560223 1-G07-62-3 0.6900
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	102.5578	GEN560224 1-G07-62-4 0.6900
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	110.6955	GEN560603 1-G07-06 0.6000
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	105.8834	GEN560603 1-G07-06 0.6000
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	100.9216	GEN560648 1-G07-21 0.5750
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.9066	GEN640009 1-COOPER NUCLEAR STATION
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.8325	GEN640009 1-COOPER NUCLEAR STATION
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.2735	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1523	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0804	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.5261	GEN645001 1-FORT CALHOUN 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.4158	GEN645001 1-FORT CALHOUN 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.6303	GEN645011 1-NEBRASKA CITY 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5299	GEN645011 1-NEBRASKA CITY 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	113.7566	GEN645012 2-NEBRASKA CITY 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6681	GEN645012 2-NEBRASKA CITY 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46351	120.2984	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46444	114.6719	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46234	113.9305	GOLTRY - HELENAT2 69.000 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46326	108.6949	GOLTRY - HELENAT2 69.000 69KV CKT 1



11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46234	113.8948	GOLTRY - IMO 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46326	108.6603	GOLTRY - IMO 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.45805	112.7589	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46159	112.171	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46251	107.2513	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46124	112.0474	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46215	107.0815	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4623	114.428	HAMON BUTLER - PUTNAM 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46322	109.1486	HAMON BUTLER - PUTNAM 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46234	114.0682	HELENAT2 69.000 - SALINE 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46326	108.8285	HELENAT2 69.000 - SALINE 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46283	115.05	HENESSEY - WAUKOMIS 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46375	109.7235	HENESSEY - WAUKOMIS 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46387	120.4699	IMO TAP - MEN TAP 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4648	114.8137	IMO TAP - MEN TAP 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46225	113.5947	IMO TAP - SOUTH 4TH ST 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46317	108.3682	IMO TAP - SOUTH 4TH ST 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46467	116.3915	IODINE - WWRDEHV4 138.00 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46559	110.905	IODINE - WWRDEHV4 138.00 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46236	115.1746	KNOBHILL - MOORELAND 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46328	109.8665	KNOBHILL - MOORELAND 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46234	114.118	KNOBHILL - SALINE 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46326	108.8771	KNOBHILL - SALINE 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46236	115.0985	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46328	109.7936	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46117	114.0106	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	108.8922	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46284	108.0417	MARSHALL - WOODRING 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4655	108.0399	MINGO - SETAB 345KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46349	122.0741	MOORELAND - NINMILE 4 138.00 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46442	115.9842	MOORELAND - NINMILE 4 138.00 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46208	113.3573	MOREWOOD SW - MORWOOD 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.463	108.1517	MOREWOOD SW - MORWOOD 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46349	121.9872	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46442	115.9187	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46271	116.2592	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46364	110.7855	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4625	113.3162	MULLERGREEN - SPEARVILLE 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46343	108.1288	MULLERGREEN - SPEARVILLE 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46102	112.252	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46194	107.3735	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4611	112.3926	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	107.5143	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46288	115.1803	OGE3TERM1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4638	109.8401	OGE3TERM1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46261	108.0349	OGE3TERM10
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46203	113.2757	OGE3TERM4
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46295	108.0922	OGE3TERM4
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46223	113.8507	OKEENE - WATONGA SW 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46315	108.6242	OKEENE - WATONGA SW 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4623	114.4827	PUTNAM - TALOGA 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46322	109.2008	PUTNAM - TALOGA 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4646	120.6683	ROMAN NOSE - SOUTHARD 138KV CKT 1

11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46553	114.8624	ROMAN NOSE - SOUTHDARD 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46124	112.3054	SPP-SWPS-02
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46215	107.333	SPP-SWPS-02
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46124	111.55	SPP-SWPS-02A
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46215	106.5528	SPP-SWPS-02A
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46123	112.0086	SPP-SWPS-03
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46213	107.0426	SPP-SWPS-03
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46124	112.3054	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46215	107.333	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46124	112.3054	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46215	107.333	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46214	113.9652	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46306	108.7249	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46219	113.317	VICI - WOODWARD 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46311	108.1183	VICI - WOODWARD 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46283	114.9744	WUKOMIS - WUKOMIS TAP 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46375	109.6499	WUKOMIS - WUKOMIS TAP 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46225	113.4321	WUKOMIS TAP - WOODRING 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46317	108.213	WUKOMIS TAP - WOODRING 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46276	113.6567	WOODWARD - WOODWARD 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46368	108.4201	WOODWARD - WOODWARD 69KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.4632	113.702	WOODWARD - WWRDEHV4 138.00 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46412	108.4776	WOODWARD - WWRDEHV4 138.00 138KV CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46276	114.3624	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46368	109.0968	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46501	107.7598	WWRDEHV7 345.00 (WVDEHV) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.46408	113.002	WWRDEHV7 345.00 (WVDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
11G	G07_044	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.465	107.7502	WWRDEHV7 345.00 (WVDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
11G	G07_046		NCONV	1052	0.22642		FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G07_048	TO->FROM	AMARILLO SOUTH INTERCHANGE - G07-48T 230.00 230KV CKT 1	351	0.98535	114.9438	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.98535	117.9066	AMARILLO SOUTH INTERCHANGE - G07-48T 230.00 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.45316	102.7714	AMARILLO SOUTH INTERCHANGE - NICHOLS STATION 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.32545	111.0412	AMARILLO SOUTH INTERCHANGE 230/115KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.32648	102.5305	AMARILLO SOUTH INTERCHANGE 230/115KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29802	108.6912	BAILEY COUNTY REC-EARTH INTERCHANGE - CASTRO COUNTY INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29897	100.7084	BAILEY COUNTY REC-EARTH INTERCHANGE - CASTRO COUNTY INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	118.243	BASE CASE
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	109.5596	BASE CASE
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.4173	BUSH SUB - NORTHWEST INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.5186	BUSH SUB - NORTHWEST INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30074	105.3427	BUSHLAND INTERCHANGE - COULTER INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29765	104.81	BUSHLAND INTERCHANGE - POTTER COUNTY INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30074	105.3259	BUSHLAND INTERCHANGE 230/115KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30056	108.5363	CANYON EAST SUB - CANYON WEST SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30152	100.5024	CANYON EAST SUB - CANYON WEST SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30056	109.0753	CANYON EAST SUB - OSAGE SWITCHING STATION 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30152	101.0364	CANYON EAST SUB - OSAGE SWITCHING STATION 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29815	100.5252	CAPROCK REC-MCDONALD - CAPROCK REC-PHILLIPS 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2972	108.7157	CAPROCK REC-PHILLIPS - CAPROCK REC-TATE 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29815	100.8286	CAPROCK REC-PHILLIPS - CAPROCK REC-TATE 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29809	108.9521	CARGILL SUB - FRIONA SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29904	100.9615	CARGILL SUB - FRIONA SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29809	108.7006	CARGILL SUB - PARMER COUNTY SUB 115KV CKT 1

11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29904	100.7105	CARGILL SUB - PARMER COUNTY SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29802	111.0251	CASTRO COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29897	103.0275	CASTRO COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29754	109.8411	CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29849	101.9746	CHAVES COUNTY INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29862	109.4839	CHILDRESS - HOLLIS TAP 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29957	101.5567	CHILDRESS - HOLLIS TAP 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.3007	103.0058	CHILDRESS - LAKE PAULINE 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29545	105.2781	CIMARRON - MINCO 7 345.00 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29736	109.7016	CIRCLE - MULLERGREEN 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29831	101.6869	CIRCLE - MULLERGREEN 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2977	108.4408	CLARENDON - JERICHO 69KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29877	109.5697	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29973	101.5883	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29877	109.4894	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29973	101.5098	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29956	110.1612	CLINTON JUNCTION - ELK CITY 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30051	102.1763	CLINTON JUNCTION - ELK CITY 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29837	108.4678	CONWAY SUB - KIRBY SWITCHING STATION 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29932	100.6314	CONWAY SUB - KIRBY SWITCHING STATION 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29837	108.6038	CONWAY SUB - YARNELL SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29932	100.7561	CONWAY SUB - YARNELL SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.4166	DALHART INTERCHANGE 115/69KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.5145	DALHART INTERCHANGE 115/69KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.3903	DALLAM COUNTY INTERCHANGE 115/69KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.4995	DALLAM COUNTY INTERCHANGE 115/69KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29802	111.3507	DEAF SMITH COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29897	103.3492	DEAF SMITH COUNTY INTERCHANGE - DEAF SMITH REC-#21 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29789	106.4382	DEAF SMITH COUNTY INTERCHANGE - HEREFORD INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.704	DEAF SMITH COUNTY INTERCHANGE - NORTHEAST HEREFORD INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.8031	DEAF SMITH COUNTY INTERCHANGE - NORTHEAST HEREFORD INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30192	117.2374	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.3029	108.7821	DEAF SMITH COUNTY INTERCHANGE - PLANT X STATION 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30079	129.0579	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30178	120.3381	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29809	108.5557	DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29904	100.5914	DEAF SMITH REC-#20 - PARMER COUNTY SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29809	109.2338	DS-#6 3 115.00 - FRIONA SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29904	101.24	DS-#6 3 115.00 - FRIONA SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29809	109.3824	DS-#6 3 115.00 - HEREFORD INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29904	101.383	DS-#6 3 115.00 - HEREFORD INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31159	134.0441	ELK CITY 230KV - SWEETWTF6 230.00 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31257	125.3074	ELK CITY 230KV - SWEETWTF6 230.00 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31159	134.0523	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31257	125.3051	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.3483	ESTACADO SUB - ESTACADO TAP 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.4358	ESTACADO SUB - ESTACADO TAP 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29732	108.4598	FLATRDG3 - HARPER 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29827	100.5268	FLATRDG3 - HARPER 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.8682	G01_039AT 115.00 - GREENSBURG 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29823	100.9021	G01_039AT 115.00 - GREENSBURG 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.5303	G01_039AT 115.00 - JUDSON LARGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.5839	G01_039AT 115.00 - JUDSON LARGE 115KV CKT 1

11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31731	109.358	G05-17T	345.00 - Hitchland Interchange 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31831	101.2924	G05-17T	345.00 - Hitchland Interchange 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31755	108.6523	G05-17T	345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31854	100.6163	G05-17T	345.00 - POTTER COUNTY INTERCHANGE 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.7298	GEN334440	1-SABINE UNIT 4
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.8976	GEN334440	1-SABINE UNIT 4
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.544	GEN334441	1-SABINE UNIT 5
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.7325	GEN334441	1-SABINE UNIT 5
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.655	GEN335204	1-NELSON UNIT 4
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.8259	GEN335204	1-NELSON UNIT 4
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.8033	GEN335206	1-NELSON UNIT 6
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.9565	GEN335206	1-NELSON UNIT 6
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	110.0991	GEN335831	1-RIVERBEND UNIT#1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	102.3066	GEN335831	1-RIVERBEND UNIT#1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	110.4864	GEN336153	1-WATERFORD UNIT#3
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	102.7593	GEN336153	1-WATERFORD UNIT#3
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.2442	GEN336251	1-NINEMILE POINT UNIT#4
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.5623	GEN336801	1-BAXTER WILSON UNIT #1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.7423	GEN336801	1-BAXTER WILSON UNIT #1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.9268	GEN336831	1-BAXTER WILSON SES
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.0352	GEN336831	1-BAXTER WILSON SES
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.1172	GEN337041	1-GERALD ANDRUS
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.2363	GEN337041	1-GERALD ANDRUS
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.4555	GEN337652	1-WHITE BLUFF UNIT #1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.5727	GEN337652	1-WHITE BLUFF UNIT #1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.303	GEN337653	1-WHITE BLUFF UNIT #2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.4081	GEN337653	1-WHITE BLUFF UNIT #2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.8727	GEN337910	1-ARKANSAS NUCLEAR ONE UNIT #1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.9984	GEN337910	1-ARKANSAS NUCLEAR ONE UNIT #1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	110.2867	GEN337911	1-ARKANSAS NUCLEAR ONE UNIT #2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	102.5572	GEN337911	1-ARKANSAS NUCLEAR ONE UNIT #2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.2371	GEN338143	1-INDEPENDENCE UNIT #1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.3619	GEN338143	1-INDEPENDENCE UNIT #1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.2764	GEN338146	1-INDEPENDENCE UNIT #2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.4018	GEN338146	1-INDEPENDENCE UNIT #2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.8589	GEN338189	1-LS POWER OSCEOLA UNIT G1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.972	GEN338189	1-LS POWER OSCEOLA UNIT G1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.6325	GEN501801	1-DOLET HILLS UNIT1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.7286	GEN501801	1-DOLET HILLS UNIT1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.8421	GEN501812	1-RODEMACHER UNIT 2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.9934	GEN501812	1-RODEMACHER UNIT 2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.0659	GEN501813	1-RODEMACHER UNIT 3
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.1925	GEN501813	1-RODEMACHER UNIT 3
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.6284	GEN509403	1-PIRKEY GENERATION
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.7259	GEN509403	1-PIRKEY GENERATION
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.1963	GEN509404	1-WELSH #1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.3324	GEN509404	1-WELSH #1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.1964	GEN509405	1-WELSH #2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.3325	GEN509405	1-WELSH #2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.1964	GEN509406	1-WELSH #3
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.3326	GEN509406	1-WELSH #3
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.5977	GEN509409	1-WILKES #3
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.6961	GEN511839	1-NORTHEASTERN STATION #2

11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.878	GEN511839 1-NORTHEASTERN STATION #2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.7013	GEN511840 1-NORTHEASTERN STATION #3
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.8851	GEN511840 1-NORTHEASTERN STATION #3
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.7163	GEN511841 1-NORTHEASTERN STATION #4
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.9001	GEN511841 1-NORTHEASTERN STATION #4
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.5081	GEN512688 2-GRDA1 GSU2 22
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.6812	GEN512688 2-GRDA1 GSU2 22
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.5782	GEN512689 1-GRDA1 GSU1 22
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.7513	GEN512689 1-GRDA1 GSU1 22
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.2821	GEN514805 1-SOONER UNIT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.3366	GEN514805 1-SOONER UNIT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.3876	GEN514806 1-SOONER UNIT 2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.4421	GEN514806 1-SOONER UNIT 2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.4945	GEN515042 1-SEMINOLE 3G
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.6435	GEN515042 1-SEMINOLE 3G
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.0066	GEN515223 1-MUSKOGEE 4G
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.1259	GEN515223 1-MUSKOGEE 4G
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.9812	GEN515225 1-MUSKOGEE 5G
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.1006	GEN515225 1-MUSKOGEE 5G
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.2513	GEN515226 1-MUSKOGEE 6G
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.353	GEN515226 1-MUSKOGEE 6G
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.2403	GEN520947 1-HUGO1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.3384	GEN520947 1-HUGO1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.3024	GEN522814 1-LUBBOCK POWER & LIGHT-MACKENZIE GEN
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.4164	GEN522814 1-LUBBOCK POWER & LIGHT-MACKENZIE GEN
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	106.0152	GEN523103 1-NOBLE_WND 3115.00
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	103.6304	GEN523461 1-BLACKHAWK GEN #1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	103.6306	GEN523462 1-BLACKHAWK GEN #2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	104.8038	GEN523815 1-LLANO ESTACADO WIND GEN
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	105.6579	GEN524276 X-WILDORADO WIND GEN
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	103.882	GEN524285 1-WILDORADO WIND GEN
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.404	GEN524895 1-SAN JUAN MESA WIND GEN
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.5237	GEN524895 1-SAN JUAN MESA WIND GEN
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	122.7011	GEN525561 1-TOLK GEN #1 24 KV
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	114.6017	GEN525561 1-TOLK GEN #1 24 KV
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	120.004	GEN525562 1-TOLK GEN #2 24 KV
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	112.4062	GEN525562 1-TOLK GEN #2 24 KV
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.7474	GEN526331 1-JONES GEN #1 22 KV
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.8837	GEN526331 1-JONES GEN #1 22 KV
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.7494	GEN526332 1-JONES GEN #2 21 KV
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.8857	GEN526332 1-JONES GEN #2 21 KV
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	112.1568	GEN527161 1-MUSTANG GEN #1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	104.3035	GEN527161 1-MUSTANG GEN #1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	112.1567	GEN527162 1-MUSTANG GEN #2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	104.3034	GEN527162 1-MUSTANG GEN #2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	112.3217	GEN527163 1-MUSTANG GEN #3 22 KV
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	104.4643	GEN527163 1-MUSTANG GEN #3 22 KV
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	112.0617	GEN527164 1-MUSTANG GEN #4 22 KV
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	104.2091	GEN527164 1-MUSTANG GEN #4 22 KV
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	112.0569	GEN527165 1-Mustang Gen #5
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	104.2044	GEN527165 1-Mustang Gen #5
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.1959	GEN527882 1-CUNNINGHAM GEN #2 20 KV
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.3218	GEN527882 1-CUNNINGHAM GEN #2 20 KV

11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	112.1697	GEN527901 1-HOBBS PLANT #1 (CT)
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	104.3111	GEN527901 1-HOBBS PLANT #1 (CT)
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	112.1695	GEN527902 1-HOBBS PLANT #2 (CT)
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	104.3109	GEN527902 1-HOBBS PLANT #2 (CT)
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	114.0981	GEN527903 1-HOBBS PLANT #3 (ST)
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	106.3568	GEN527903 1-HOBBS PLANT #3 (ST)
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	101.4645	GEN531447 1-HOLCOMB GENERATOR
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	105.1628	GEN539670 4-JUDSON LARGE GENERATOR
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	110.0373	GEN560170 1-G08-16 34.500
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	102.1566	GEN560170 1-G08-16 34.500
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	106.4995	GEN560173 1-G08-17 0.5750
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.7736	GEN560183 1-G08-14 0.6900
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.9314	GEN560183 1-G08-14 0.6900
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	105.9911	GEN560279 1-G08-18 0.6900
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	106.1323	GEN560371 1-G07-46 0.6900
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	106.4634	GEN560505 1-G02-006 0.6000
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.7822	GEN560530 1-G05-15 0.6900
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.939	GEN560530 1-G05-15 0.6900
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	105.2208	GEN560543 1-G05-21 0.6000
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	106.3833	GEN560586 1-G06-44-3 0.6000
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	104.5584	GEN560592 1-G06-45 0.6000
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	104.5658	GEN560595 1-G06-47 0.6000
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	105.6425	GEN560598 1-G06-49 0.6000
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	112.9552	GEN599891 1-OKLAUN
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	105.2102	GEN599891 1-OKLAUN
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	105.4281	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	105.6661	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29766	108.9605	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29861	100.9339	GERALD GENTLEMAN STATION - RED WILLOW 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29731	108.5477	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29826	100.6314	GERALD GENTLEMAN STATION - SWEETWATER 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29501	104.7543	GRACMNT7 345.00 - LAWTON EASTSIDE 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29542	105.6376	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29738	108.696	GRAND ISLAND - SWEETWATER 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29833	100.799	GRAND ISLAND - SWEETWATER 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30628	120.388	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30725	111.9774	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31203	130.1967	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31302	121.3462	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.4187	Graves Sub - STATELINE INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.5188	Graves Sub - STATELINE INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.7364	GREENSBURG - SUN CITY 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29823	100.7984	GREENSBURG - SUN CITY 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2812	104.1414	HALE CO INTERCHANGE - KRESS INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2963	109.2152	HALE CO INTERCHANGE - LAMTON INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29724	101.3298	HALE CO INTERCHANGE - LAMTON INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29623	109.7912	HALE CO INTERCHANGE - PLANT X STATION 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29717	101.9482	HALE CO INTERCHANGE - PLANT X STATION 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.0942	HAPPY INTERCHANGE - PALO DURO SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.1713	HAPPY INTERCHANGE - PALO DURO SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.6785	HAPPY INTERCHANGE - SWISHER COUNTY REC-HAPPY 69KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.7787	HAPPY INTERCHANGE - SWISHER COUNTY REC-HAPPY 69KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.3068	104.3636	Harrington Station East Bus - Harrington Station Mid Bus 230KV CKT 1

11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.6583	HIGHLAND PARK SUB - HIGHLAND PARK TAP 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.757	HIGHLAND PARK SUB - HIGHLAND PARK TAP 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30674	120.9772	Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2972	108.8362	HOBBS INTERCHANGE - MIDLAND COUNTY INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29815	100.9487	HOBBS INTERCHANGE - MIDLAND COUNTY INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29836	100.4999	HOCKLEY COUNTY INTERCHANGE - LAMB COUNTY INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29803	113.3299	HOLCOMB - SETAB 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29898	104.9471	HOLCOMB - SETAB 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2991	111.4793	HOLCOMB - SPEARVILLE 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30005	103.1503	HOLCOMB - SPEARVILLE 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29862	109.5298	HOLLIS TAP - WELLINGTON 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29957	101.5861	HOLLIS TAP - WELLINGTON 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2977	108.434	JERICHO - KIRBY SWITCHING STATION 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2977	108.4135	JERICHO (JERIC2WT) 115/69/14.4KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29725	106.2744	JONES STATION - TUCO INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29862	110.6558	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29957	102.5497	KIRBY SWITCHING STATION - MCCLELLAN SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	106.1188	KRESS INTERCHANGE - KRESS RURAL SUB 69KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2812	100.3806	KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	106.4392	KRESS INTERCHANGE - SWISHER COUNTY REC-KRESS 69KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	106.2394	KRESS RURAL SUB - LIGHTHOUSE REC-PLAINVIEW & PHINNEY 69KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29723	108.4764	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29818	100.6048	LAMB COUNTY INTERCHANGE - TOLK STATION WEST 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29723	108.4771	LAMB COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29818	100.6185	LAMB COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2963	109.9091	LAMB COUNTY REC-SOUTH OLTON - LAMTON INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29724	102.0502	LAMB COUNTY REC-SOUTH OLTON - LAMTON INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2963	110.128	LAMB COUNTY REC-SOUTH OLTON - PLANT X STATION 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29724	102.266	LAMB COUNTY REC-SOUTH OLTON - PLANT X STATION 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29559	105.5588	LAWTON EASTSIDE - SUNNYSIDE 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29733	110.8886	LUBBOCK SOUTH INTERCHANGE - WOLFORTH INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29827	102.9646	LUBBOCK SOUTH INTERCHANGE - WOLFORTH INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29862	110.5717	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29957	102.4747	MCCLELLAN SUB - MCLEAN RURAL SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29862	110.3094	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29957	102.2414	MCLEAN RURAL SUB - SHAMROCK 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.6952	MEDICINE LODGE - SUN CITY 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29823	100.7582	MEDICINE LODGE - SUN CITY 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2972	108.8404	MIDLAND COUNTY INTERCHANGE 230/138KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29815	100.9513	MIDLAND COUNTY INTERCHANGE 230/138KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29817	116.303	MINGO - RED WILLOW 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29912	107.5469	MINGO - RED WILLOW 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29814	117.7364	MINGO - SETAB 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29909	108.8815	MINGO - SETAB 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29837	108.5889	NICHOLS STATION - YARNELL SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29932	100.7517	NICHOLS STATION - YARNELL SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.7031	NORTHEAST HEREFORD INTERCHANGE 115/69KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.8023	NORTHEAST HEREFORD INTERCHANGE 115/69KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29884	108.5786	NORTHWEST - TATONGA7 345.00 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29979	100.6464	NORTHWEST - TATONGA7 345.00 345KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29762	108.9261	OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29857	101.0336	OASIS INTERCHANGE - SAN JUAN MESA TAP 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.6351	OCHILTREE 3115.00 - PERRYTON INTERCHANGE 115KV CKT 1

11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.7335	OCHILTREE 3115.00 - PERRYTON INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.1861	PALO DURO SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.2726	PALO DURO SUB - RANDALL COUNTY INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.3934	PIERCE STREET SUB - PIERCE STREET TAP 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.5102	PIERCE STREET SUB - PIERCE STREET TAP 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.3008	116.9598	PLANT X STATION - S-RANDLCO 230.00 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30177	108.6083	PLANT X STATION - S-RANDLCO 230.00 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29835	115.2148	PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29929	107.1985	PLANT X STATION - SUNDOWN INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29643	110.8964	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29737	102.9707	PLANT X STATION (WH ALM20171) 230/115/13.2KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30055	104.215	POTTER COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31755	108.6616	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31854	100.6282	POTTER COUNTY INTERCHANGE (WAUK 90343-A) 345/230/13.2KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.6299	RANDALL COUNTY INTERCHANGE - SOUTHEAST SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.7307	RANDALL COUNTY INTERCHANGE - SOUTHEAST SUB 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29862	109.85	SHAMROCK - WELLINGTON 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29957	101.8309	SHAMROCK - WELLINGTON 138KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29862	110.2966	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29957	102.2316	SHAMROCK (SHAMRCK1) 115/69/14.4KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29862	109.8027	SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29957	101.8072	SHAMROCK (SHAMRCK2) 138/69/14.4KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29735	108.4717	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29829	100.5721	SMOKYHL6 230.00 - SUMMIT 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29735	114.1167	SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2983	105.8609	SPEARVILLE (SPEARVL) 345/230/13.8KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29732	108.6149	SPP-MKEC-08
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29827	100.6661	SPP-MKEC-08
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31203	128.8147	SPP-SWPS-02
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31302	119.9888	SPP-SWPS-02
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31203	129.1459	SPP-SWPS-02A
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31302	120.2939	SPP-SWPS-02A
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31255	131.3558	SPP-SWPS-03
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31353	122.5028	SPP-SWPS-03
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2963	109.8851	SPP-SWPS-25
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29724	102.0272	SPP-SWPS-25
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29802	108.4368	SPP-SWPS-26
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29897	100.4684	SPP-SWPS-26
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29723	108.477	SPP-SWPS-K37
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29818	100.6189	SPP-SWPS-K37
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2972	108.8404	SPP-SWPS-K71
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29815	100.9513	SPP-SWPS-K71
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29802	111.2695	SPP-SWPS-T04
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29897	103.2752	SPP-SWPS-T04
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29755	108.535	SPP-SWPS-T37
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29849	100.6456	SPP-SWPS-T37
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29837	109.0697	SPP-SWPS-T53
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29932	101.2321	SPP-SWPS-T53
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29862	110.8172	SPP-SWPS-T54
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29957	102.7385	SPP-SWPS-T54
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29809	108.6912	SPP-SWPS-T59
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29904	100.7255	SPP-SWPS-T59
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.704	SPP-SWPS-T63



11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.8031	SPP-SWPS-T63
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.6299	SPP-SWPS-T64
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.7307	SPP-SWPS-T64
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	109.1861	SPP-SWPS-T66
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	101.2726	SPP-SWPS-T66
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29753	108.5133	SPP-SWPS-T70
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29848	100.6092	SPP-SWPS-T70
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29895	108.8459	SPP-SWPS-T73
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29999	100.9166	SPP-SWPS-T73
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29796	108.6364	SPP-SWPS-V01
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29891	100.7262	SPP-SWPS-V01
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29745	108.6039	SPP-SWPS-V02
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2984	100.7283	SPP-SWPS-V02
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29752	108.5783	SPP-SWPS-V04
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29847	100.6723	SPP-SWPS-V04
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30056	109.3193	SPP-SWPS-V05
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.30152	101.2705	SPP-SWPS-V05
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29748	103.8028	SPP-SWPS-V29
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29751	108.3664	SPP-SWPS-V43
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29834	109.3984	SPP-SWPS-V44
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29929	101.4547	SPP-SWPS-V44
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	106.9484	SPS_SVC2-TUCO Interchange SVC Bus
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31203	128.8147	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31302	119.9888	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	108.4179	STATELINE INTERCHANGE (H TP80154301) 230/115/13.2KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29824	100.5209	STATELINE INTERCHANGE (H TP80154301) 230/115/13.2KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31203	128.8147	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.31302	119.9888	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29739	113.009	SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29833	105.0264	SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2812	100.3801	SWISHER COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29855	129.0288	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29948	120.9029	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29769	109.387	TOLK STATION WEST - YOAKUM COUNTY INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29864	101.4869	TOLK STATION WEST - YOAKUM COUNTY INTERCHANGE 230KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29079	106.015	TUCO INTERCHANGE (GE M1022338) 345/230/13.2KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29312	106.3629	TUCO INTERCHANGE (UPDATE DATA) 345/230/13.2KV TRANSFORMER CKT 2
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29729	106.9266	TUCO INTERCHANGE 230/13.0KV TRANSFORMER CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.29716	108.5638	WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	G07-48T	230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1	351	0.2981	100.665	WOLFFORTH INTERCHANGE - YUMA INTERCHANGE 115KV CKT 1
11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.25816	107.5718	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1	
11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.25896	100.6622	ELK CITY 230KV - SWEETWT6 230.00 230KV CKT 1	
11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.25816	107.5819	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	
11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.25896	100.6601	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1	
11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.25856	104.2921	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.2812	100.1108	KRESS INTERCHANGE - SWISHER COUNTY INTERCHANGE 115KV CKT 1	
11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.25856	103.0656	SPP-SWPS-02	
11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.25856	103.3737	SPP-SWPS-02A	
11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.25902	105.3148	SPP-SWPS-03	
11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.25856	103.0656	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1	
11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.25856	103.0656	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1	
11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.2812	100.1102	SWISHER COUNTY INTERCHANGE 230/115KV TRANSFORMER CKT 1	
11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.24693	110.6966	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1	

11G	G07_048	FROM->TO	SWISHER COUNTY INTERCHANGE - TUCO INTERCHANGE 230KV CKT 1	351	0.24766	104.1288	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1
11G	G07_050	FROM->TO	KEENAN4 (KEENAN1) 138/34.5/9.96KV TRANSFORMER CKT 1	140	0.99378	120.7928	BASE CASE
11G	G07_050		NCONV	1195	0.20724		TATONGA7 345.00 - WWRDEHV7 345.00 345KV CKT 1
11G	G07_050		NCONV	1195	0.20735		TATONGA7 345.00 - WWRDEHV7 345.00 345KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19027	116.9175	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19038	114.4777	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19181	117.3541	CLEO CORNER - MEN TAP 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19193	114.8771	CLEO CORNER - MEN TAP 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19299	113.1262	DEWEY - IODINE 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19311	110.7235	DEWEY - IODINE 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19615	118.2945	DEWEY - SOUTHARD 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19627	115.6722	DEWEY - SOUTHARD 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19487	127.0455	EL RENO - ROMAN NOSE 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19499	123.269	EL RENO - ROMAN NOSE 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19375	110.5379	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19385	108.3915	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20476	124.6423	FPL SWITCH - MOORELAND 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20489	120.5291	FPL SWITCH - MOORELAND 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20536	118.8205	FPL SWITCH - WOODWARD 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20549	115.9217	FPL SWITCH - WOODWARD 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19215	109.4902	G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19027	117.1212	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19038	114.6719	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19181	117.2883	IMO TAP - MEN TAP 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19193	114.8137	IMO TAP - MEN TAP 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19299	113.3116	IODINE - WWRDEHV4 138.00 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19311	110.905	IODINE - WWRDEHV4 138.00 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19148	111.0124	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19151	108.8922	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19615	117.4737	ROMAN NOSE - SOUTHARD 138KV CKT 1
11G	G07_050	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.19627	114.8624	ROMAN NOSE - SOUTHARD 138KV CKT 1
11G	G07_057		NCONV	1052	0.20252		FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G07_062		NCONV	1195	0.21313		NORTHWEST - TATONGA7 345.00 345KV CKT 1
11G	G07_062		NCONV	1195	0.21423		NORTHWEST - TATONGA7 345.00 345KV CKT 1
11G	G07_062		NCONV	1195	0.23656		TATONGA7 345.00 - WWRDEHV7 345.00 345KV CKT 1
11G	G07_062		NCONV	1195	0.23769		TATONGA7 345.00 - WWRDEHV7 345.00 345KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21434	108.083	ALVA - CHEROKEE SW 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21372	120.7504	ARAPAHO - HAMON BUTLER 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21483	109.1464	ARAPAHO - HAMON BUTLER 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21372	120.7336	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21483	109.1411	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20697	121.2571	ARCADIA - NORTHWEST 345KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.20804	108.3299	ARCADIA - NORTHWEST 345KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21313	118.7708	BASE CASE
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21423	107.9816	BASE CASE
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21423	108.0553	BEAVER JCT - FT SUPPLY 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21324	119.3775	BRANTLEY - DURHAM 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21435	108.1329	BRANTLEY - DURHAM 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21324	119.4014	BRANTLEY - MORWOOD 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21435	108.1518	BRANTLEY - MORWOOD 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21326	119.5813	BUFBEAR2 - BUFFALO 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21436	108.2179	BUFBEAR2 - BUFFALO 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7 345.00 345KV CKT 1	1195	0.21326	119.4239	BUFFALO - WEST 69KV CKT 1

11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21436	108.1172	BUFFALO - WEST 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.2136	119.3522	CALUMET - EL RENO 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21471	108.1373	CALUMET - EL RENO 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.2136	119.4774	CALUMET - WATONGA SW 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21471	108.2389	CALUMET - WATONGA SW 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21368	120.0966	CANTON - OKEENE 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21478	108.6899	CANTON - OKEENE 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21368	120.1871	CANTON - TALOGA 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21478	108.7582	CANTON - TALOGA 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21573	126.1585	CEDARDALE - MOORELAND 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21685	112.7918	CEDARDALE - MOORELAND 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21573	125.978	CEDARDALE - OKEENE 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21685	112.7055	CEDARDALE - OKEENE 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21376	119.9533	CIMARRON - EL RENO 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21487	108.6043	CIMARRON - EL RENO 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21462	108.0668	CIMARRON - JENSEN TAP 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21256	119.1716	CIMARRON - MINCO 7 345.00 345KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.20607	116.7717	CIMARRON - NORTHWEST 345KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.20713	105.347	CIMARRON - NORTHWEST 345KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21667	129.5941	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21779	114.4777	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21751	130.3068	CLEO CORNER - MEN TAP 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21864	114.8771	CLEO CORNER - MEN TAP 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	120.2346	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21534	108.9349	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	120.1705	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21534	108.8818	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21479	120.011	CLINTON JUNCTION - ELK CITY 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.2159	108.7608	CLINTON JUNCTION - ELK CITY 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21372	120.0223	CORDELL - GOTEBO 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21483	108.6154	CORDELL - GOTEBO 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21372	120.6404	CORDELL - INDUSTRIAL PARK 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21483	109.0715	CORDELL - INDUSTRIAL PARK 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21468	108.0307	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21848	123.5562	DEWEY - IODINE 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21961	110.7235	DEWEY - IODINE 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.22117	115.6722	DEWEY - SOUTHARD 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21485	121.7874	DOVER SW - HENESSEY 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21597	109.8931	DOVER SW - HENESSEY 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21564	124.184	DOVER SW - OKEENE 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21675	111.7167	DOVER SW - OKEENE 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21324	119.3362	DURHAM - SWEETWATER 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21435	108.1008	DURHAM - SWEETWATER 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21988	123.269	EL RENO - ROMAN NOSE 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21429	124.3744	ELK CITY - RHWIND4 138.00 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.2154	111.4292	ELK CITY - RHWIND4 138.00 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21388	117.6998	ELK CITY 230KV - SWEETW6 230.00 230KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21498	106.6484	ELK CITY 230KV - SWEETW6 230.00 230KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21388	117.6998	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21498	106.6484	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.22377	119.5736	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.22493	108.3915	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.22616	120.5291	FPL SWITCH - MOORELAND 138KV CKT 1

11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.22677	115.9217	FPL SWITCH - WOODWARD 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.22393	118.2686	G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21437	108.0485	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.2952	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.2651	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.2952	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.2651	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0497	GEN300002 1-THOMAS HILL UNIT 2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.3359	GEN300003 1-THOMAS HILL UNIT 3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.2991	GEN300003 1-THOMAS HILL UNIT 3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.7349	GEN300006 1-NEW MADRID UNIT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.7041	GEN300006 1-NEW MADRID UNIT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.7336	GEN300007 1-NEW MADRID UNIT 2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.6991	GEN300007 1-NEW MADRID UNIT 2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0786	GEN318007 1-5MOROW161 161.00
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.1797	GEN334070 1-LEWIS CREEK 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.7473	GEN334440 1-SABINE UNIT 4
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.702	GEN334440 1-SABINE UNIT 4
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.6127	GEN334441 1-SABINE UNIT 5
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.5633	GEN334441 1-SABINE UNIT 5
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.7182	GEN335204 1-NELSON UNIT 4
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.6727	GEN335204 1-NELSON UNIT 4
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.8258	GEN335206 1-NELSON UNIT 6
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.7836	GEN335206 1-NELSON UNIT 6
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.9023	GEN335831 1-RIVERBEND UNIT#1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	109.8834	GEN335831 1-RIVERBEND UNIT#1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	121.2355	GEN336153 1-WATERFORD UNIT#3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	110.2095	GEN336153 1-WATERFORD UNIT#3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.3815	GEN336170 1-GULF OXY U4
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.3265	GEN336170 1-GULF OXY U4
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.7539	GEN336801 1-BAXTER WILSON UNIT #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.713	GEN336801 1-BAXTER WILSON UNIT #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.0403	GEN336831 1-BAXTER WILSON SES
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	109.0064	GEN336831 1-BAXTER WILSON SES
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0458	GEN337006 1-DUKE MCADAMS G1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0458	GEN337007 1-DUKE MCADAMS G2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.2372	GEN337041 1-GERALD ANDRUS
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	109.2026	GEN337041 1-GERALD ANDRUS
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0524	GEN337125 6-LS POWER BATESVILLE
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0711	GEN337428 1-PERYVILLE UNIT #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0608	GEN337429 1-PERYVILLE UNIT #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0711	GEN337430 1-PERYVILLE UNIT #3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0608	GEN337432 1-PERYVILLE UNIT #5
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.4164	GEN337652 1-WHITE BLUFF UNIT #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	109.3813	GEN337652 1-WHITE BLUFF UNIT #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.3124	GEN337653 1-WHITE BLUFF UNIT #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	109.2737	GEN337653 1-WHITE BLUFF UNIT #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.6132	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	109.5746	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.9688	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	109.9423	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.4044	GEN338143 1-INDEPENDENCE UNIT #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	109.3868	GEN338143 1-INDEPENDENCE UNIT #1

11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.4208	GEN338146 1-INDEPENDENCE UNIT #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	109.4029	GEN338146 1-INDEPENDENCE UNIT #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.1911	GEN338189 1-LS POWER OSCEOLA UNIT G1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	109.1605	GEN338189 1-LS POWER OSCEOLA UNIT G1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.1357	GEN501801 1-DOLET HILLS UNIT1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	109.0925	GEN501801 1-DOLET HILLS UNIT1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.8301	GEN501812 1-RODEMACHER UNIT 2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.7873	GEN501812 1-RODEMACHER UNIT 2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.9842	GEN501813 1-RODEMACHER UNIT 3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.9457	GEN501813 1-RODEMACHER UNIT 3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.1537	GEN505432 1-SIKESTON
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0527	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0527	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.049	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.7219	GEN509394 1-FLINT CREEK
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.674	GEN509394 1-FLINT CREEK
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.0033	GEN509403 1-PIRKEY GENERATION
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.9579	GEN509403 1-PIRKEY GENERATION
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.74	GEN509404 1-WELSH #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.6877	GEN509404 1-WELSH #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.74	GEN509405 1-WELSH #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.6877	GEN509405 1-WELSH #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.74	GEN509406 1-WELSH #3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.6877	GEN509406 1-WELSH #3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.3484	GEN509409 1-WILKES #3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.299	GEN509409 1-WILKES #3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.5644	GEN511839 1-NORTHEASTERN STATION #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.5176	GEN511839 1-NORTHEASTERN STATION #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.605	GEN511840 1-NORTHEASTERN STATION #3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.5582	GEN511840 1-NORTHEASTERN STATION #3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.6142	GEN511841 1-NORTHEASTERN STATION #4
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.5677	GEN511841 1-NORTHEASTERN STATION #4
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.1477	GEN511843 1-RIVERSIDE STATION #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.4789	GEN512688 2-GRDA1 GSU2 22
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.4341	GEN512688 2-GRDA1 GSU2 22
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.5221	GEN512689 1-GRDA1 GSU1 22
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.472	GEN512689 1-GRDA1 GSU1 22
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.3327	GEN514805 1-SOONER UNIT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.1166	GEN514806 1-SOONER UNIT 2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.8602	GEN514806 1-SOONER UNIT 2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.14	GEN514899 1-REDBUD1S
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.14	GEN514900 1-REDBUD2S
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.2888	GEN514910 2-REDBUD GEN
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.2045	GEN514910 2-REDBUD GEN
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.2888	GEN514911 2-REDBUD GEN
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.2045	GEN514911 2-REDBUD GEN
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.1963	GEN515041 1-SEMINOLE 2G
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.3376	GEN515042 1-SEMINOLE 3G
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.2679	GEN515042 1-SEMINOLE 3G
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.7022	GEN515223 1-MUSKOGEE 4G
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.641	GEN515223 1-MUSKOGEE 4G
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.6878	GEN515225 1-MUSKOGEE 5G
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.6262	GEN515225 1-MUSKOGEE 5G

11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.8405	GEN515226 1-MUSKOGEE 6G
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.7866	GEN515226 1-MUSKOGEE 6G
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	112.4613	GEN515364 1-CENT 11 0.6000
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	102.5517	GEN515364 1-CENT 11 0.6000
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	114.2663	GEN515389 1-TLGAWND1 34.500
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	103.9312	GEN515389 1-TLGAWND1 34.500
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	110.4017	GEN515393 1-OGEWND2G
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	100.7482	GEN515393 1-OGEWND2G
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	113.4045	GEN515397 1-OUSPR1 34.500
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	103.3032	GEN515397 1-OUSPR1 34.500
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	114.8119	GEN515790 1-FPLWND2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	104.6411	GEN515790 1-FPLWND2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	114.7274	GEN520922 1-SLEEPING 138.00
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	104.5789	GEN520922 1-SLEEPING 138.00
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.5932	GEN520947 1-HUGO1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.5372	GEN520947 1-HUGO1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	116.2316	GEN520997 1-MORLND2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	105.3878	GEN520997 1-MORLND2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	117.9014	GEN521120 1-BUFBEAR2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	107.2902	GEN521120 1-BUFBEAR2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	118.1196	GEN523971 1-HARRINGTON GEN #1 24 KV
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	107.5194	GEN523971 1-HARRINGTON GEN #1 24 KV
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	118.1178	GEN523972 1-HARRINGTON GEN #2 24 KV
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	107.5181	GEN523972 1-HARRINGTON GEN #2 24 KV
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	118.1179	GEN523973 1-HARRINGTON GEN #3 24 KV
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	107.5182	GEN523973 1-HARRINGTON GEN #3 24 KV
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	118.122	GEN525561 1-TOLK GEN #1 24 KV
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	107.5687	GEN525561 1-TOLK GEN #1 24 KV
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	118.0632	GEN525562 1-TOLK GEN #2 24 KV
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	107.5306	GEN525562 1-TOLK GEN #2 24 KV
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.5648	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.5536	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.5608	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.55	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.5462	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.5342	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0765	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	120.7296	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	109.7393	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.1679	GEN541151 3-SIBLEY GENERATING UNIT #3
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.5778	GEN542951 5-HAWTHORN UNIT #5
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.5625	GEN542951 5-HAWTHORN UNIT #5
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.8522	GEN542955 1-LACYGNE UNIT #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.8443	GEN542955 1-LACYGNE UNIT #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.7667	GEN542956 2-LACYGNE UNIT #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.7589	GEN542956 2-LACYGNE UNIT #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.7767	GEN542957 1-IATAN UNIT #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.778	GEN542957 1-IATAN UNIT #1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.9775	GEN542962 2-IATAN UNIT #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.9873	GEN542962 2-IATAN UNIT #2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0757	GEN546702 1-NM GEN N1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	100.2035	GEN560175 1-G07-44 0.5750
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	110.9435	GEN560180 1-G07-51 0.6000

11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	101.1383	GEN560180 1-G07-51	0.6000
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	104.6015	GEN560221 1-G07-62-1	0.6900
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	104.6015	GEN560222 1-G07-62-2	0.6900
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	104.9514	GEN560223 1-G07-62-3	0.6900
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	104.8897	GEN560224 1-G07-62-4	0.6900
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	116.5052	GEN560603 1-G07-06	0.6000
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	105.8834	GEN560603 1-G07-06	0.6000
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	106.11	GEN560648 1-G07-21	0.5750
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.8193	GEN640009 1-COOPER NUCLEAR STATION	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.8325	GEN640009 1-COOPER NUCLEAR STATION	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.1523	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.0804	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.4289	GEN645001 1-FORT CALHOUN 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.4158	GEN645001 1-FORT CALHOUN 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.5378	GEN645011 1-NEBRASKA CITY 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.5299	GEN645011 1-NEBRASKA CITY 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21313	119.6654	GEN645012 2-NEBRASKA CITY 2	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21423	108.6681	GEN645012 2-NEBRASKA CITY 2	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21667	130.1073	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21779	114.6719	GLASS MOUNTAIN - MOORELAND 138KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21389	120.1209	GOLTRY - HELENAT2	69.000 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.215	108.6949	GOLTRY - HELENAT2	69.000 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21389	120.0793	GOLTRY - IMO 69KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.215	108.6603	GOLTRY - IMO 69KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21271	118.7494	GRACMNT7	345.00 - MINCO 7 345.00 345KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21395	118.028	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21505	107.2513	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21439	117.9354	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21549	107.0815	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21372	120.7542	HAMON BUTLER - PUTNAM 69KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21483	109.1486	HAMON BUTLER - PUTNAM 69KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21389	120.2783	HELENAT2	69.000 - SALINE 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.215	108.8285	HELENAT2	69.000 - SALINE 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21485	121.5893	HENESSEY - WAUKOMIS 138KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21597	109.7235	HENESSEY - WAUKOMIS 138KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21751	130.1342	IMO TAP - MEN TAP 138KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21864	114.8137	IMO TAP - MEN TAP 138KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21376	119.7374	IMO TAP - SOUTH 4TH ST 138KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21486	108.3682	IMO TAP - SOUTH 4TH ST 138KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21848	123.7705	IODINE - WWRDEHV4	138.00 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21961	110.905	IODINE - WWRDEHV4	138.00 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21395	121.7553	KNOBHILL - MOORELAND 138KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21506	109.8665	KNOBHILL - MOORELAND 138KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21389	120.3372	KNOBHILL - SALINE 69KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.215	108.8771	KNOBHILL - SALINE 69KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21395	121.61	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21506	109.7936	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.22326	120.0601	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.22434	108.8922	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21468	108.0417	MARSHALL - WOODRING 138KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21791	108.0399	MINGO - SETAB 345KV CKT 1	
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21687	115.9842	MOORELAND - NINMILE 4	138.00 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21324	119.4015	MOREWOOD SW - MORWOOD 138KV CKT 1	

11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21435	108.1517	MOREWOOD SW - MORWOOD 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21687	115.9187	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21436	123.4672	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21547	110.7855	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21388	119.2895	MULLERGREEN - SPEARVILLE 230KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21499	108.1288	MULLERGREEN - SPEARVILLE 230KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.2088	119.8988	NORTHWEST - SPRING CREEK 345KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21268	118.0681	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21378	107.3735	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21272	118.2405	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21382	107.5143	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21503	121.8	OGE3TERM1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21615	109.8401	OGE3TERM1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.2148	108.0349	OGE3TERM10
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21425	108.0922	OGE3TERM4
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21373	119.982	OKEENE - WATONGA SW 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21484	108.6242	OKEENE - WATONGA SW 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21372	120.8182	PUTNAM - TALOGA 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21483	109.2008	PUTNAM - TALOGA 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.22117	114.8624	ROMAN NOSE - SOUTHARD 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.2088	119.8559	SOONER - SPRING CREEK 345KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21439	118.2239	SPP-SWPS-02
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21549	107.333	SPP-SWPS-02
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21439	117.5913	SPP-SWPS-02A
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21549	106.5528	SPP-SWPS-02A
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21445	117.8885	SPP-SWPS-03
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21555	107.0426	SPP-SWPS-03
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21439	118.2239	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21549	107.333	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21439	118.2239	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21549	107.333	STLN-DEMARC6230.00 - SWEETWT6 230.00 230KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21341	120.1516	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21452	108.7249	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21351	119.3753	VICI - WOODWARD 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21462	108.1183	VICI - WOODWARD 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21485	121.509	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21597	109.6499	WAUKOMIS - WAUKOMIS TAP 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21375	119.544	WAUKOMIS TAP - WOODRING 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21486	108.213	WAUKOMIS TAP - WOODRING 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21391	119.5012	WOODRING (WOODRNG2) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21452	119.7593	WOODWARD - WOODWARD 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21563	108.4201	WOODWARD - WOODWARD 69KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21526	120.0566	WOODWARD - WWRDEHV4 138.00 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21638	108.4776	WOODWARD - WWRDEHV4 138.00 138KV CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21452	120.5845	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21563	109.0968	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21677	119.5581	WWRDEHV7 345.00 (WVDEHV) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21789	107.7598	WWRDEHV7 345.00 (WVDEHV) 345/138/13.8KV TRANSFORMER CKT 1
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21676	119.5264	WWRDEHV7 345.00 (WVDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
11G	G07_062	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.21788	107.7502	WWRDEHV7 345.00 (WVDEHV-T2) 345/138/13.8KV TRANSFORMER CKT 2
11G	G08_003		NCONV		1195	0.20735		TATONGA7 345.00 - WWRDEHV7 345.00 345KV CKT 1
11G	G08_003		NCONV		1195	0.20735		TATONGA7 345.00 - WWRDEHV7 345.00 345KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19038	115.756	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1



11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19038	114.4777	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19193	116.1686	CLEO CORNER - MEN TAP 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19193	114.8771	CLEO CORNER - MEN TAP 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19311	111.9829	DEWEY - IODINE 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19311	110.7235	DEWEY - IODINE 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19627	117.0613	DEWEY - SOUTHARD 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19627	115.6722	DEWEY - SOUTHARD 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19498	125.1284	EL RENO - ROMAN NOSE 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19499	123.269	EL RENO - ROMAN NOSE 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19387	109.4903	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19385	108.3915	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.20487	122.2923	FPL SWITCH - MOORELAND 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.20489	120.5291	FPL SWITCH - MOORELAND 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.20548	117.4074	FPL SWITCH - WOODWARD 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.20549	115.9217	FPL SWITCH - WOODWARD 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19227	108.4527	G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19038	115.9364	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19038	114.6719	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19193	116.1039	IMO TAP - MEN TAP 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19193	114.8137	IMO TAP - MEN TAP 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19311	112.1699	IODINE - WWRDEHV4 138.00 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19311	110.905	IODINE - WWRDEHV4 138.00 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19159	109.9646	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19151	108.8922	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19627	116.2349	ROMAN NOSE - SOUTHARD 138KV CKT 1
11G	G08_003	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.19627	114.8624	ROMAN NOSE - SOUTHARD 138KV CKT 1
11G	G08_008	FROM->TO	GRAHAM INTERCHANGE 115/69KV TRANSFORMER CKT 1		46	0.99779	114.848	GARZA SUB - GRAHAM INTERCHANGE 69KV CKT 1
11G	G08_008		NCONV		1052	0.26402		G05-15T 345.00 - OKLAUNION 345KV CKT 1
11G	G08_008		NCONV		1052	0.26979		G05-15T 345.00 - OKLAUNION 345KV CKT 1
11G	G08_008		NCONV		1052	0.26622		G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1
11G	G08_008		NCONV		1052	0.27199		G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	104.5	BLACKHAWK STATION N. 115/13.8KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	104.5	BLACKHAWK STATION S. 115/13.8KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	114.9	ELMCREK6 230.00 - MRWYP16 230.00 230KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	114.9	ETTER RURAL SUB 115/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	106.2	FINNEY SWITCHING STATION - G08-18 345.00 345KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	110.8	G02-006 115.00 - TEXAS COUNTY INTERCHANGE 115KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	110.8	G02-006 115.00 115/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	110.1	G03-013 345.00 - STEVENSCO 345.00 345KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	111.9	G03-013 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	111.9	G03-013 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	112.7	G05-15 345.00 - G05-15T 345.00 345KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	112.7	G05-15T 345.00 - G08-14 345.00 345KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	107	G05-17 345.00 - G05-17T 345.00 345KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	112.3	G05-17 345.00 345/115KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	111.3	G05-17 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	111.3	G05-17 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	112.3	G05-17-2 115.00 - G05-17-2 115.00 115KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	112.3	G05-17-2 115.00 115/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	107.3	G05-21 115.00 - KIRBY SWITCHING STATION 115KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	107.3	G05-21 115.00 115/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	112.7	G06-44 115.00 - G06-44-1 115.00 115KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO	230.00 230KV CKT 1	350	0.22532	111.3	G06-44 115.00 - G06-44-2 115.00 115KV CKT 1

11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	110.3	G06-44 115.00 - G06-44-3 115.00 115KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.7	G06-44-1 115.00 115/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	111.3	G06-44-2 115.00 115/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	110.3	G06-44-3 115.00 115/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	106.2	G06-49 345.00 - STEVENSCO 345.00 345KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	106.2	G06-49 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	109.9	G07-46 115.00 - HITCHLAND INTERCHANGE 115KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	109.9	G07-46 115.00 115/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.7	G08-14 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	106.2	G08-18 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.7	GERALD GENTLEMAN STATION 230/23.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.8	GERALD GENTLEMAN STATION 345/24.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	110.6	Golden Spread REC - Mustang Interchange 230 kV Generation Bus - MUSTANG STATION 230KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.8	Golden Spread REC - Mustang Interchange 230 kV Generation Bus 230/18.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.8	Golden Spread REC - Mustang Interchange 230 kV Generation Bus 230/18.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.8	Golden Spread REC - Mustang Interchange 230 kV Generation Bus 230/22.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.8	GRASSLAND INTERCHANGE 230/34.5KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	109.1	Hitchland Interchange (PRO G2218-01) 345/115/13.8KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.9	HOBBS INTERCHANGE 115/18.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.9	HOBBS INTERCHANGE 115/18.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.5	HOBBS INTERCHANGE 230/18.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.2	HUBER GEN - INDUSTRIAL SUB 69KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.2	INDUSTRIAL SUB - SID RICHARDSON (PHILLIPS) GEN 69KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.8	JONES STATION 230/22.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.9	Jones Station Bus#2 230/22.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	111.8	JUDSON LARGE 115/15.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	110.7	MAJESTC_WND3115.00 - MARTIN 3115.00 115KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.8	MUSTANG STATION N. 115/13.8KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	112.8	MUSTANG STATION S. 115/13.8KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	117.9	OKLAUN - OKLAUNION 345KV CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	114.9	SPEARMAN INTERCHANGE 115/69KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22532	153.6	TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22103	119.6	TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22064	110.3	TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22081	106.6	TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22048	103.4	TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1
11G	G08_009	FROM->TO	DEAF SMITH COUNTY INTERCHANGE - S-RANDLCO 230.00 230KV CKT 1	350	0.22111	103.3	TOLK STATION EAST 230/24.0KV TRANSFORMER CKT 1
11G	G08_009		NCONV	1052	0.22508		G05-15T 345.00 - OKLAUNION 345KV CKT 1
11G	G08_009		NCONV	1052	0.23085		G05-15T 345.00 - OKLAUNION 345KV CKT 1
11G	G08_009		NCONV	1052	0.22728		G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1
11G	G08_009		NCONV	1052	0.23305		G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1
11G	G08_009	FROM->TO	SUNDOWN INTERCHANGE - WOLFFORTH INTERCHANGE 230KV CKT 1	351	0.19805	101.4026	TOLK STATION EAST - TUCO INTERCHANGE 230KV CKT 1
11G	G08_014		NCONV	1052	0.41123		G05-15T 345.00 - OKLAUNION 345KV CKT 1
11G	G08_014		NCONV	1052	0.417		G05-15T 345.00 - OKLAUNION 345KV CKT 1
11G	G08_016	FROM->TO	GRASSLAND INTERCHANGE 230/115KV TRANSFORMER CKT 1	115	0.66163	113.9876	GRASSLAND INTERCHANGE - Jones Station Bus#2 230KV CKT 1
11G	G08_016		NCONV	1052	0.26358		G05-15T 345.00 - OKLAUNION 345KV CKT 1
11G	G08_016		NCONV	1052	0.26936		G05-15T 345.00 - OKLAUNION 345KV CKT 1
11G	G08_016		NCONV	1052	0.26578		G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1
11G	G08_016		NCONV	1052	0.27156		G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1
11G	G08_017		NCONV	1052	0.28288		FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G08_017		NCONV	1052	0.27848		Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
11G	G08_017		NCONV	717	0.23664		MINGO - RED WILLOW 345KV CKT 1
11G	G08_017		NCONV	717	0.23544		MINGO - RED WILLOW 345KV CKT 1

11G	G08_017		NCONV		1328	0.27495		MINGO - SETAB 345KV CKT 1
11G	G08_018		NCONV		1052	0.31656		FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G08_018		NCONV		1052	0.31768		FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G08_018		NCONV		1052	0.31216		Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
11G	G08_018		NCONV		1052	0.31328		Hitchland Interchange - STEVENSCO 345.00 345KV CKT 1
11G	G08_018		NCONV		1328	0.19144		HOLCOMB - SETAB 345KV CKT 1
11G	G08_018		NCONV		1328	0.19196		HOLCOMB - SETAB 345KV CKT 1
11G	G08_019		NCONV		1195	0.46202		NORTHWEST - TATONGA7 345.00 345KV CKT 1
11G	G08_019		NCONV		1195	0.46293		NORTHWEST - TATONGA7 345.00 345KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46297	108.083	ALVA - CHEROKEE SW 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46231	114.2401	ARAPAHO - HAMON BUTLER 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46322	109.1464	ARAPAHO - HAMON BUTLER 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46231	114.23	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46322	109.1411	ARAPAHO - INDUSTRIAL PARK 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.45195	113.7652	ARCADIA - NORTHWEST 345KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.45284	108.3299	ARCADIA - NORTHWEST 345KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	112.5885	BASE CASE
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.9816	BASE CASE
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0553	BEAVER JCT - FT SUPPLY 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46209	113.0847	BRANTLEY - DURHAM 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.463	108.1329	BRANTLEY - DURHAM 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46209	113.1056	BRANTLEY - MORWOOD 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.463	108.1518	BRANTLEY - MORWOOD 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46207	113.2207	BUFBEAR2 - BUFFALO 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46298	108.2179	BUFBEAR2 - BUFFALO 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46207	113.1007	BUFFALO - WEST 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46298	108.1172	BUFFALO - WEST 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46218	113.0817	CALUMET - EL RENO 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46309	108.1373	CALUMET - EL RENO 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46218	113.1925	CALUMET - WATONGA SW 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46309	108.2389	CALUMET - WATONGA SW 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46226	113.7017	CANTON - OKEENE 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46317	108.6899	CANTON - OKEENE 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46226	113.7774	CANTON - TALOGA 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46317	108.7582	CANTON - TALOGA 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46305	118.3065	CEDARDALE - MOORELAND 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46396	112.7918	CEDARDALE - MOORELAND 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46305	118.199	CEDARDALE - OKEENE 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46396	112.7055	CEDARDALE - OKEENE 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46207	113.5924	CIMARRON - EL RENO 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46298	108.6043	CIMARRON - EL RENO 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46199	112.9882	CIMARRON - JENSEN TAP 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4629	108.0668	CIMARRON - JENSEN TAP 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.44203	110.2931	CIMARRON - NORTHWEST 345KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4429	105.347	CIMARRON - NORTHWEST 345KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46352	120.2986	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46444	114.4777	CLEO CORNER - GLASS MOUNTAIN 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46388	120.7961	CLEO CORNER - MEN TAP 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4648	114.8771	CLEO CORNER - MEN TAP 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46222	113.924	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46313	108.9349	CLINTON AIR FORCE BASE TAP - ELK CITY 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46222	113.8661	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46313	108.8818	CLINTON AIR FORCE BASE TAP - HOBART JUNCTION 138KV CKT 1

11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46206	113.7134	CLINTON JUNCTION - ELK CITY 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46297	108.7608	CLINTON JUNCTION - ELK CITY 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46231	113.6233	CORDELL - GOTEBO 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46322	108.6154	CORDELL - GOTEBO 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46231	114.1487	CORDELL - INDUSTRIAL PARK 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46322	109.0715	CORDELL - INDUSTRIAL PARK 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46284	108.0307	COTTONWOOD CREEK - MARSHALL 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46468	116.1434	DEWEY - IODINE 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46559	110.7235	DEWEY - IODINE 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46462	121.916	DEWEY - SOUTHARD 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46553	115.6722	DEWEY - SOUTHARD 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46284	115.0679	DOVER SW - HENESSEY 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46375	109.8931	DOVER SW - HENESSEY 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46306	117.106	DOVER SW - OKEENE 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46397	111.7167	DOVER SW - OKEENE 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46209	113.0491	DURHAM - SWEETWATER 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.463	108.1008	DURHAM - SWEETWATER 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46424	123.269	EL RENO - ROMAN NOSE 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46265	116.9018	ELK CITY - RHWIND4 138.00 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46357	111.4292	ELK CITY - RHWIND4 138.00 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46074	111.313	ELK CITY 230KV - SWEETWTF6 230.00 230KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46163	106.6484	ELK CITY 230KV - SWEETWTF6 230.00 230KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46074	111.313	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46163	106.6484	ELK CITY 230KV (ELKCTY-6) 230/138/13.8KV TRANSFORMER CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46915	113.2974	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.47005	108.3915	FINNEY SWITCHING STATION - STEVENSCO 345.00 345KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46814	130.3102	FPL SWITCH - MOORELAND 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46906	120.5291	FPL SWITCH - MOORELAND 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46874	123.0303	FPL SWITCH - WOODWARD 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46966	115.9217	FPL SWITCH - WOODWARD 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46185	112.1566	G05-15T 345.00 - TUCO INTERCHANGE 345KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46297	108.0485	G07-48T 230.00 - SWISHER COUNTY INTERCHANGE 230KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	115.0341	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2651	G08-19 345.00 345/34.5KV TRANSFORMER CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	115.0341	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2651	G08-19 345.00 345/34.5KV TRANSFORMER CKT 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0497	GEN300002 1-THOMAS HILL UNIT 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.1764	GEN300003 1-THOMAS HILL UNIT 3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2991	GEN300003 1-THOMAS HILL UNIT 3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.579	GEN300006 1-NEW MADRID UNIT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7041	GEN300006 1-NEW MADRID UNIT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.5797	GEN300007 1-NEW MADRID UNIT 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6991	GEN300007 1-NEW MADRID UNIT 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0786	GEN318007 1-5MOROW161 161.00
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.0653	GEN334070 1-LEWIS CREEK 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1797	GEN334070 1-LEWIS CREEK 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.589	GEN334440 1-SABINE UNIT 4
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.702	GEN334440 1-SABINE UNIT 4
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.4514	GEN334441 1-SABINE UNIT 5
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5633	GEN334441 1-SABINE UNIT 5
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.5596	GEN335204 1-NELSON UNIT 4
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6727	GEN335204 1-NELSON UNIT 4
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.6695	GEN335206 1-NELSON UNIT 6

11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7836	GEN335206 1-NELSON UNIT 6
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	114.7636	GEN335831 1-RIVERBEND UNIT#1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.8834	GEN335831 1-RIVERBEND UNIT#1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	115.0937	GEN336153 1-WATERFORD UNIT#3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	110.2095	GEN336153 1-WATERFORD UNIT#3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.2157	GEN336170 1-GULF OXY U4
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.3265	GEN336170 1-GULF OXY U4
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.5974	GEN336801 1-BAXTER WILSON UNIT #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.713	GEN336801 1-BAXTER WILSON UNIT #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.8882	GEN336831 1-BAXTER WILSON SES
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.0064	GEN336831 1-BAXTER WILSON SES
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0458	GEN337006 1-DUKE MCADAMS G1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0458	GEN337007 1-DUKE MCADAMS G2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	114.0818	GEN337041 1-GERALD ANDRUS
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.2026	GEN337041 1-GERALD ANDRUS
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0524	GEN337125 6-LS POWER BATESVILLE
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0711	GEN337428 1-PERYVILLE UNIT #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0608	GEN337429 1-PERYVILLE UNIT #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0711	GEN337430 1-PERYVILLE UNIT #3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0608	GEN337432 1-PERYVILLE UNIT #5
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	114.2613	GEN337652 1-WHITE BLUFF UNIT #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.3813	GEN337652 1-WHITE BLUFF UNIT #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	114.1557	GEN337653 1-WHITE BLUFF UNIT #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.2737	GEN337653 1-WHITE BLUFF UNIT #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	114.4562	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.5746	GEN337910 1-ARKANSAS NUCLEAR ONE UNIT #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	114.8239	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.9423	GEN337911 1-ARKANSAS NUCLEAR ONE UNIT #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	114.2633	GEN338143 1-INDEPENDENCE UNIT #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.3868	GEN338143 1-INDEPENDENCE UNIT #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	114.2796	GEN338146 1-INDEPENDENCE UNIT #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.4029	GEN338146 1-INDEPENDENCE UNIT #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	114.0372	GEN338189 1-LS POWER OSCEOLA UNIT G1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.1605	GEN338189 1-LS POWER OSCEOLA UNIT G1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.9815	GEN501801 1-DOLET HILLS UNIT1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.0925	GEN501801 1-DOLET HILLS UNIT1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.6735	GEN501812 1-RODEMACHER UNIT 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7873	GEN501812 1-RODEMACHER UNIT 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.8308	GEN501813 1-RODEMACHER UNIT 3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.9457	GEN501813 1-RODEMACHER UNIT 3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.0359	GEN505432 1-SIKESTON
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1537	GEN505432 1-SIKESTON
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0527	GEN509391 G1-ARSENAL HILL GENS #2 (STALL)
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0527	GEN509392 G2-ARSENAL HILL GENS #3 (STALL)
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.049	GEN509393 S1-ARSENAL HILL GENS #4 (STALL)
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.5617	GEN509394 1-FLINT CREEK
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.674	GEN509394 1-FLINT CREEK
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.8489	GEN509403 1-PIRKEY GENERATION
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.9579	GEN509403 1-PIRKEY GENERATION
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.58	GEN509404 1-WELSH #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6877	GEN509404 1-WELSH #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.58	GEN509405 1-WELSH #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6877	GEN509405 1-WELSH #2

11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.58	GEN509406 1-WELSH #3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6877	GEN509406 1-WELSH #3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.1847	GEN509409 1-WILKES #3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.299	GEN509409 1-WILKES #3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.4039	GEN511839 1-NORTHEASTERN STATION #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5176	GEN511839 1-NORTHEASTERN STATION #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.4449	GEN511840 1-NORTHEASTERN STATION #3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5582	GEN511840 1-NORTHEASTERN STATION #3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.4543	GEN511841 1-NORTHEASTERN STATION #4
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5677	GEN511841 1-NORTHEASTERN STATION #4
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.0315	GEN511843 1-RIVERSIDE STATION #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1477	GEN511843 1-RIVERSIDE STATION #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.3128	GEN512688 2-GRDA1 GSU2 22
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.4341	GEN512688 2-GRDA1 GSU2 22
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.3596	GEN512689 1-GRDA1 GSU1 22
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.472	GEN512689 1-GRDA1 GSU1 22
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.1912	GEN514805 1-SOONER UNIT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.3327	GEN514805 1-SOONER UNIT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.8154	GEN514806 1-SOONER UNIT 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.8602	GEN514806 1-SOONER UNIT 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.0433	GEN514899 1-REDBUD1S
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.14	GEN514899 1-REDBUD1S
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.0433	GEN514900 1-REDBUD2S
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.14	GEN514900 1-REDBUD2S
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.1089	GEN514910 2-REDBUD GEN
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2045	GEN514910 2-REDBUD GEN
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.1089	GEN514911 2-REDBUD GEN
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2045	GEN514911 2-REDBUD GEN
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.093	GEN515041 1-SEMINOLE 2G
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1963	GEN515041 1-SEMINOLE 2G
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.1651	GEN515042 1-SEMINOLE 3G
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.2679	GEN515042 1-SEMINOLE 3G
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.5308	GEN515223 1-MUSKOGEE 4G
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.641	GEN515223 1-MUSKOGEE 4G
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.5161	GEN515225 1-MUSKOGEE 5G
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6262	GEN515225 1-MUSKOGEE 5G
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.6769	GEN515226 1-MUSKOGEE 6G
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7866	GEN515226 1-MUSKOGEE 6G
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	106.9191	GEN515364 1-CENT 11 0.6000
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	102.5517	GEN515364 1-CENT 11 0.6000
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	108.3441	GEN515389 1-TLGAWND1 34.500
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	103.9312	GEN515389 1-TLGAWND1 34.500
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	105.0237	GEN515393 1-OGEWND2G
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	100.7482	GEN515393 1-OGEWND2G
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	107.7177	GEN515397 1-OUSPRT 1 34.500
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	103.3032	GEN515397 1-OUSPRT 1 34.500
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	109.066	GEN515790 1-FPLWND2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	104.6411	GEN515790 1-FPLWND2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	109.0027	GEN520922 1-SLEEPING 138.00
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	104.5789	GEN520922 1-SLEEPING 138.00
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.427	GEN520947 1-HUGO1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5372	GEN520947 1-HUGO1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	110.1877	GEN520997 1-MORLND2

11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	105.3878	GEN520997 1-MORLND2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	111.8297	GEN521120 1-BUFBEAR2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.2902	GEN521120 1-BUFBEAR2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	112.0355	GEN523971 1-HARRINGTON GEN #1 24 KV
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5194	GEN523971 1-HARRINGTON GEN #1 24 KV
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	112.0339	GEN523972 1-HARRINGTON GEN #2 24 KV
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5181	GEN523972 1-HARRINGTON GEN #2 24 KV
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	112.034	GEN523973 1-HARRINGTON GEN #3 24 KV
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5182	GEN523973 1-HARRINGTON GEN #3 24 KV
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	112.064	GEN525561 1-TOLK GEN #1 24 KV
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5687	GEN525561 1-TOLK GEN #1 24 KV
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	112.0133	GEN525562 1-TOLK GEN #2 24 KV
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	107.5306	GEN525562 1-TOLK GEN #2 24 KV
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.4192	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5536	GEN532651 1-JEFFREY ENERGY CENTER UNIT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.415	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.55	GEN532652 1-JEFFREY ENERGY CENTER UNIT 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.4015	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5342	GEN532653 1-JEFFREY ENERGY CENTER UNIT 3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0765	GEN532663 1-LAWRENCE ENERGY CENTER UNIT 5
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	114.5937	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	109.7393	GEN532751 1-WOLF CREEK GENERATING STATION UNIT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.046	GEN541151 3-SIBLEY GENERATING UNIT #3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1679	GEN541151 3-SIBLEY GENERATING UNIT #3
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.4294	GEN542951 5-HAWTHORN UNIT #5
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5625	GEN542951 5-HAWTHORN UNIT #5
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.7084	GEN542955 1-LACYGNE UNIT #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.8443	GEN542955 1-LACYGNE UNIT #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.6268	GEN542956 2-LACYGNE UNIT #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.7589	GEN542956 2-LACYGNE UNIT #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.6377	GEN542957 1-IATAN UNIT #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.778	GEN542957 1-IATAN UNIT #1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.8459	GEN542962 2-IATAN UNIT #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.9873	GEN542962 2-IATAN UNIT #2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0757	GEN546702 1-NM GEN N1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	105.3953	GEN560180 1-G07-51 0.6000
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	101.1383	GEN560180 1-G07-51 0.6000
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	102.1676	GEN560221 1-G07-62-1 0.6900
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	102.1676	GEN560222 1-G07-62-2 0.6900
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	102.3737	GEN560223 1-G07-62-3 0.6900
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	102.3146	GEN560224 1-G07-62-4 0.6900
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	110.3685	GEN560603 1-G07-06 0.6000
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	105.8834	GEN560603 1-G07-06 0.6000
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	100.6535	GEN560648 1-G07-21 0.5750
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.6903	GEN640009 1-COOPER NUCLEAR STATION
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.8325	GEN640009 1-COOPER NUCLEAR STATION
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.1523	GEN640010 1-GERALD GENTLEMAN STATION UNIT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.0804	GEN640011 2-GERALD GENTLEMAN STATION UNIT 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.2847	GEN645001 1-FORT CALHOUN 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.4158	GEN645001 1-FORT CALHOUN 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.3964	GEN645011 1-NEBRASKA CITY 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.5299	GEN645011 1-NEBRASKA CITY 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	113.5305	GEN645012 2-NEBRASKA CITY 2

11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46293	108.6681	GEN645012 2-NEBRASKA CITY 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46352	120.5286	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46444	114.6719	GLASS MOUNTAIN - MOORELAND 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46235	113.7138	GOLTRY - HELENAT2 69.000 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46326	108.6949	GOLTRY - HELENAT2 69.000 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46235	113.6763	GOLTRY - IMO 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46326	108.6603	GOLTRY - IMO 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.45806	112.5105	GRACMNT7 345.00 - MINCO 7 345.00 345KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46161	111.8544	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46251	107.2513	GRAPEVINE INTERCHANGE - NICHOLS STATION 230KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46125	111.7244	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46215	107.0815	GRAPEVINE INTERCHANGE - STATELINE INTERCHANGE 230KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46231	114.2429	HAMON BUTLER - PUTNAM 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46322	109.1486	HAMON BUTLER - PUTNAM 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46235	113.8576	HELENAT2 69.00 - SALINE 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46326	108.8285	HELENAT2 69.000 - SALINE 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46284	114.8788	HENESSEY - WAUKOMIS 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46375	109.7235	HENESSEY - WAUKOMIS 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46388	120.72	IMO TAP - MEN TAP 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4648	114.8137	IMO TAP - MEN TAP 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46226	113.353	IMO TAP - SOUTH 4TH ST 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46317	108.3682	IMO TAP - SOUTH 4TH ST 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46468	116.338	IODINE - WWRDEHV4 138.00 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46559	110.905	IODINE - WWRDEHV4 138.00 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	115.0169	KNOBHILL - MOORELAND 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46328	109.8665	KNOBHILL - MOORELAND 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46235	113.9106	KNOBHILL - SALINE 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46326	108.8771	KNOBHILL - SALINE 69KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46237	114.9262	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46328	109.7936	KNOBHILL (KNOBHIL4) 138/69/13.2KV TRANSFORMER CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46118	113.802	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46201	108.8922	LAWTON EASTSIDE - OKLAUNION 345KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46284	108.0417	MARSHALL - WOODRING 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4655	108.0399	MINGO - SETAB 345KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46351	122.4906	MOORELAND - NINMILE 4 138.00 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46442	115.9842	MOORELAND - NINMILE 4 138.00 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46209	113.1056	MOREWOOD SW - MORWOOD 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.463	108.1517	MOREWOOD SW - MORWOOD 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46351	122.3888	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46442	115.9187	MOREWOOD SW - NINMILE 4 138.00 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46272	116.1826	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46364	110.7855	MOREWOOD SW - RHWIND4 138.00 138KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46252	113.0591	MULLERGREN - SPEARVILLE 230KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46343	108.1288	MULLERGREN - SPEARVILLE 230KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.45244	113.3957	NORTHWEST - SPRING CREEK 345KV CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46103	111.9391	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46194	107.3735	NORTHWEST (NORTWST2) 345/138/13.8KV TRANSFORMER CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46111	112.0893	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46202	107.5143	NORTHWEST (NORTWST3) 345/138/13.8KV TRANSFORMER CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46289	115.0235	OGE3TERM1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.4638	109.8401	OGE3TERM1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46261	108.0349	OGE3TERM10
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV CKT 1	1195	0.46204	113.0173	OGE3TERM4



11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46295	108.0922	OGE3TERM4		
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46224	113.6191	OKEENE - WATONGA SW 69KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46315	108.6242	OKEENE - WATONGA SW 69KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46231	114.3013	PUTNAM - TALOGA 69KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46322	109.2008	PUTNAM - TALOGA 69KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46462	120.9563	ROMAN NOSE - SOUTHARD 138KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46553	114.8624	ROMAN NOSE - SOUTHARD 138KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.45244	113.3662	SOONER - SPRING CREEK 345KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46282	112.4387	SOONER - WOODRING 345KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46125	111.9947	SPP-SWPS-02		
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46215	107.333	SPP-SWPS-02		
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46125	111.2163	SPP-SWPS-02A		
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46215	106.5528	SPP-SWPS-02A		
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46124	111.6842	SPP-SWPS-03		
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46213	107.0426	SPP-SWPS-03		
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46125	111.9947	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46215	107.333	STATELINE INTERCHANGE - STLN-DEMARC6230.00 230KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46125	111.9947	STLN-DEMARC6230.00 - SWEETWT6	230.00 230KV	CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46215	107.333	STLN-DEMARC6230.00 - SWEETWT6	230.00 230KV	CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46215	113.7389	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46306	108.7249	TALOGA (TALOGA) 138/69/13.8KV TRANSFORMER	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.4622	113.0745	VICI - WOODWARD 69KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46311	108.1183	VICI - WOODWARD 69KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46284	114.7994	WAUKOMIS - WAUKOMIS TAP 138KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46375	109.6499	WAUKOMIS - WAUKOMIS TAP 138KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46226	113.1839	WAUKOMIS TAP - WOODRING 138KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46317	108.213	WAUKOMIS TAP - WOODRING 138KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46277	113.3913	WOODWARD - WOODWARD 69KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46368	108.4201	WOODWARD - WOODWARD 69KV	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46321	113.5048	WOODWARD - WWRDEHV4	138.00 138KV	CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46412	108.4776	WOODWARD - WWRDEHV4	138.00 138KV	CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46277	114.1314	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46368	109.0968	WOODWARD (WOODWRD2) 138/69/13.2KV TRANSFORMER	CKT 1	
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46409	112.8333	WWRDEHV7	345.00 (WWDEHV) 345/138/13.8KV TRANSFORMER	CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46501	107.7598	WWRDEHV7	345.00 (WWDEHV) 345/138/13.8KV TRANSFORMER	CKT 1
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.46409	112.8109	WWRDEHV7	345.00 (WWDEHV-T2) 345/138/13.8KV TRANSFORMER	CKT 2
11G	G08_019	TO->FROM	NORTHWEST - TATONGA7	345.00 345KV	CKT 1	1195	0.465	107.7502	WWRDEHV7	345.00 (WWDEHV-T2) 345/138/13.8KV TRANSFORMER	CKT 2

**H: ACCC Analysis (constraints with upgrades)**